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CARROLL COLLEGE BULLETIN

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UNIVERSITY OF ILLINOIS

The Annual Catalogue

1920-1921

Waukesha, Wisconsin

July, 1921

William Arthur Ganfield, A.B., D.D., LL.D.
M.A.

CARROLL COLLEGE takes pleasure in announcing to the readers of this Bulletin that Dr. Ganfield has accepted the Presidency of Carroll and will assume the duties of the office prior to the opening of the College, September 20th.

Carroll College Bulletin

Vol. XVIII No. 3

The Annual Catalogue

For the Academic
Year of 1920-1921
With Announce-
ments for the Year
of 1921-1922

Waukesha, Wisconsin

July, 1921

Published monthly by the College, and entered at the Postoffice, Waukesha, Wisconsin, as second-class matter, under Act of Congress of July 16, 1894

CALENDAR FOR 1921

THE FRANKLIN CO. CHI.

JANUARY.

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CALENDAR FOR 1922

THE FRANKLIN CO. CHI.

JANUARY.

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MARCH.

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OCTOBER.

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NOVEMBER.

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DECEMBER.

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College Calendar, 1921-1922

1921

January 4, Tuesday, 8 A. M.	Christmas Recess ends.
January 24-28,	Examinations for First Semester.
January 28, Friday,	First Semester ends.
January 31, Monday,	Registration for the Second Semester.
February 1, Tuesday,	Second Semester begins.
March 25, Friday, 4 P. M.	Spring Recess begins.
April 12, Tuesday 8 A. M.	Spring Recess ends.
May 30, Monday,	Memorial Day.
June 8-14,	Examinations for the Second Semester.
June 12, Sunday, 3 P. M.	Final Vesper Service.
June 12, Sunday, 7:30 P. M.	Baccalaureate Service.
June 13, Monday, 3 P. M.	Class Day Exercises.
June 13, Monday, 8 P. M.	Presentation of College Play.
June 14, Tuesday, 10 A. M.	Meeting of the Board of Trustees.
June 14, Tuesday, 11 A. M.	Final Chapel Service.
June 14, Tuesday, 3 P. M.	Recital of the School of Music.
June 14, Tuesday, 6:30 P. M.	Alumni Banquet.
June 15, Wednesday, 10 A. M.	Commencement.

Summer Vacation.

September 19, 20, Monday, Tuesday,	Registration for the First Semester.
September 21, Wednesday	Beginning of the College Year.
October—	Founders' Day.
November 24-26,	Thanksgiving Recess.
December 16, Friday, 4 P. M.	Christmas Recess begins.

1922

January 3, Tuesday, 8 A. M.	Christmas Recess ends.
January 30—*February* 3,	Examinations for the First Semester.
February 3, Friday,	First Semester ends.
February 6, Monday,	Registration for the Second Semester.
February 7, Tuesday,	Second Semester begins.
March 24, Friday, 4 P. M.	Spring Recess begins.
April 4, Tuesday, 8 A. M.	Spring Recess ends.
May 30, Tuesday,	Memorial Day.
June 9-15,	Examinations for the Second Semester.
June 11, Sunday, 3 P. M.	Final Vesper Service.
June 11, Sunday, 8 P. M.	Baccalaureate Service.
June 13, Tuesday, 8 P. M.	Recital of the Department of Music.
June 14, Wednesday, 10 A. M.	Meeting of the Board of Trustees.
June 14, Wednesday, 8 P. M.	Presentation of the College Play.
June 15, Thursday, 11 A. M.	Final Chapel Service.
June 15, Thursday, 3 P. M.	Class Day Exercises.
June 15, Thursday, 6:30 P. M.	Alumni Banquet.
June 16, Friday, 10 A. M.	Commencement.

Summer Vacation.

September 18, 19, Monday, Tuesday,	Registration for the First Semester.
September 20, Wednesday,	First Semester begins.
November 30-*December* 2,	Thanksgiving Recess.
December 15, Friday, 4 P. M.	Christmas Recess begins.

The Board of Trustees

Term Expires 1921

Rev. Paul B. Jenkins, D.D.	Milwaukee
Rev. William W. Perry, LL.D.	Milwaukee
Henry M. Youmans	Waukesha
F. P. Stone	Wausau
William Mainland	Oshkosh
Hon. William D. Connor	Marshfield

Term Expires 1922

Rev. Charles E. Bovard, D.D.	Waukesha
Rev. Alfred S. Badger, D.D.	Waukesha
S. Frank Shattuck	Neenah
James K. Lowry	Waukesha
Richard P. Breese	Waukesha

Term Expires 1923

Roy L. Benjamin	Waukesha
Ralph P. Perry	Reedsburg
Miss Martha Week	Stevens Point
Frederick C. Comstock	Milwaukee
William H. Edwards	Milwaukee

Term expires 1924

Theodore J. Roth	Superior
Rev. Thomas S. Johnson, D.D.	Beaver Dam
Jacob Mortenson	Oak Park, Ill.
Andrew J. Frame, LL.D.	Waukesha
Arthur W. Wilcox	Horicon
Arthur B. Hall	Chicago, Ill.

Officers and Committees of the Board of Trustees

OFFICERS

Rev. William W. Perry, LL.D.	President
Rev. Alfred S. Badger, D. D.	Vice-President
Henry M. Youmans	Secretary
Walter R. Frame	Treasurer of the College

EXECUTIVE COMMITTEE

Rev. William W. Perry, LL.D.	Andrew J. Frame, LL.D.
Rev. A. S. Badger, D.D.	James K. Lowry
William H. Edwards	Henry M. Youmans

FINANCE COMMITTEE

Andrew J. Frame, LL.D.	S. Frank Shattuck
Roy L. Benjamin	Hon. William D. Connor

Jacob Mortenson

INSTRUCTION COMMITTEE

Rev. Alfred S. Badger, D.D.	Rev. Paul B. Jenkins, D.D.
Rev. Charles E. Bovard, D.D.	S. Frank Shattuck

Frederick C. Comstock

AUDITING COMMITTEE

William H. Edwards	Frederick C. Comstock

The corporate name of the College is

The Board of Trustees of Carroll College.

Officers of Instruction

LLOYD SLOTE DANCEY, M.A. 125 Charles Street
Acting President of the College
Professor of Mathematics and Physics

SAMUEL B. RAY, M.A., L.H.D. Milwaukee
Professor Emeritus of Education and Mathematics

MAY NICKELL RANKIN, B.A., B.O. 303 East Avenue
Ralph Voorhees Professor of Literary Interpretation

HARRY LINN STARR, M.A. 348 Wisconsin Avenue
Professor of English

JAMES ELCANA ROGERS, Ph.D., Litt.D., D.D. East Avenue
Professor of Philosophy and Education

CLARENCE SHEPARD Carroll College
Professor of Piano and Theory

ZACHARIAH DAVIES, M.A., B.D. 415 Central Avenue
Professor of Biblical Literature and Public Speaking

STANLEY WALKER ROCKWOOD, M.A. 232 East Avenue
Professor of Romance Languages

DARWIN ORLANDO CLARK, Ph.D. 232 East Avenue
Professor of History and Political Science

*ALBERT FRANKLIN GILMAN, Ph.D. 210 Laflin Avenue
Professor of Chemistry

---

*Resigned, Henry B. Merrill, Ph.D., appointed for the year 1921-1922.

MARGARET HUTTON ABELS, M.A. 200 East College Avenue
Professor of Economics and Commerce

ROBERT C. KISSLING, Ph.D. 119 Charles Street
Professor of Classical Languages and German

CLIFFORD C. OLIVER, M.D., D.P.H. 218 East Avenue
(Passed Assistant Surgeon U. S. Public Health Service.)
Acting Professor of Biology

FRANK ORMSBY Carroll College
Professor of Voice

GEORGE ORTON BANTING, Ph.B. 821 Barstow Street
Associate Professor of Education

ALICE PALMER MORRIS, B.A., B.O. 613 Hartwell Avenue
Librarian and Instructor in Library Methods

ALLEN B. FORSBERG, M.A. Carroll College
Assistant Professor of Economics and Commerce

Assistant Professor of English Composition and Public Speaking

EVA GERTRUDE GUTHEIL 222 Randall Street
Instructor in Home Economics

CATHERINE NYE DAVIES, M.A. 337 Arlington Street
Instructor in English

JOHN E. FRIES, M.A. 215 East Park Avenue
Physical Director for Men, and Instructor in Mathematics

ARTHUR FREDERICK POTTS, M.S. 123 Newhall Avenue
Instructor in Biology

ERNA SELMA LAU, B.Mus. Elizabeth Voorhees Dormitory
Instructor in Piano

BERNARD A. HOFFMAN 217 Harrison Avenue
Instructor in Journalism

LUCILLE KOLTES 903 East Avenue
Physical Director for Women

STUDENT ASSISTANTS

Assistants in Chemistry

Perry M. Paddock, Donald P. Smith, William D. Grimmer, Elmer Leininger.

Assistants in Biology

Wilma K. Huenink, James M. Mishler.

Assistant in Physics

Vincent P. Batha.

Assistant in Mathematics

Beulah Greengo.

Assistants in Economics and Commerce

Gerald S. Thomas, William J. Cook, Albert E. Croft.

Assistants in the Library

Lucille C. Dobson, Leora F. Gollmar, Martha Jane Smith, Leora M. Howard, Carol B. Vincent.

Assistant in Latin

Ruth R. Mattas.

Officers of Administration

LLOYD SLOTE DANCEY, M.A. 125 Charles Street
Dean of College and Acting President

HARRY LINN STARR, M.A. 348 Wisconsin Avenue
Registrar and Secretary of the Faculty

MARY H. CUTLER Elizabeth Voorhees Dormitory
Dean of Women

CLARENCE E. SHEPARD Carroll College
Director of the School of Music

PERRY TIPLER Carroll College
Secretary and Recorder

MARY WAGA Elizabeth Voorhees Dormitory
Manager of Elizabeth Voorhees Dormitory

BURTON W. WATT Rankin Hall
Superintendent of Grounds and Buildings

LILLIE M. HAUFE Elizabeth Voorhees Dormitory
Assistant in Office

EVELYN THOMAS 1119 Buckley Court
Assistant in Office

COMMITTEES OF THE FACULTY

ADMINISTRATION—Dean Dancey, Professors Starr, Rankin, Gilman, Kissling, Mrs. Cutler.

REGISTRATION AND CURRICULUM—Professors Starr, Dancey, Rankin, Gilman, Abels.

LIBRARY—Mrs. Morris, Professors Starr, Abels, Miss Davies.

RELIGIOUS LIFE—Professors Davies, Rogers, Gilman. Mrs. Cutler.

PUBLIC EXERCISES—Professors Rogers, Rankin, Clark, Davies, Gilman.

ATHLETICS—Dean Dancey, Mr. Fries, Professors Kissling, Clark, Rockwood.

STUDENT ACTIVITIES AND SOCIAL AFFAIRS—Professors Davies, Rankin, Clark, Kissling, Mrs. Cutler, Miss Gutheil, Miss Davies.

AUDITS—Professor Abels and Mr. Fries.

ATTENDANCE—Professors Rockwood, Rankin, Kissling, Miss Davies.

CARROLL COLLEGE

Carroll College was incorporated as a collegiate institution early in 1846. It was established upon the foundation of an earlier institution, an academy, organized and in operation as early as 1840. The newly organized college represented the determined purpose of the pioneers of what was then the wilderness of southern Wisconsin to reproduce in their western home the institutions of intellectual and religious culture, which they had cherished in the old homes, in New England and New York chiefly. Carroll College, in its inception, then, represents the purpose of establishing and promoting in this newly developing land the ideal and cause of Christian education and culture, and such purpose it has continued in the years that have passed to maintain and stress. During the greater part of this time, the college has been associated with the Presbyterian Church, as the agent of its educational ideals and activities, in a relation that has been mutually helpful without imposing upon the college any denominational tests or restraints. Several Christian denominations are represented in the Board of Trustees and in the Faculty, and students of all denominations find here a friendly and congenial atmosphere.

Carroll a College

Carroll has pride in the name "College" and in its membership in the group of institutions that bear that name. For the college is distinctively an American institution. Its origin, and the determination of the nature of its development, are to be found in the conditions of American life and character, conditions demanding large vision, adaptability, power of initiative, combined with a high sense of personal responsibility.

Advantages of the College

For the realization of these ends, the College possesses distinct advantages. Here the student may find equipment

adequate for his need, and, at the same time, all the opportunities for study, for investigation, for culture, that he can successfully appropriate in his undergraduate course. In the compact group of the college community, not only may instruction and cultural discipline be more effective, but, in the fullness and completeness of associations and experience possible therein, may be found the best preparation for meeting and mastering the trying problems of life and of the work of life. Hence it is that the graduates of the College have had so large a share in the leadership of our country.

Purpose of Carroll College

Carroll College seeks to offer to its students able and effective instruction, in an atmosphere so friendly and helpful, and with associations so stimulating, as to discover and develop the best powers and abilities of each. It has always been, and continues to be, the primary purpose of the college, to maintain and promote the ideal of a broad, liberal culture, to direct its activities and methods toward the development of mind and character, the making of men and women.

Courses of Study

At the same time due recognition is given to the conditions and demands of contemporary life. Recent and prevailing tendencies have thrown added emphasis upon the function of the college in the training of the individual for the service of society. The largely increased, and increasing, demands of professional and technical training, the need of greater adaptability and command of individual powers in commercial and industrial life, make the disciplinary and cultural training of the college increasingly necessary for success therein. The courses of study in Carroll College represent an attempt to preserve a just balance between studies of cultural and disciplinary character and those possessing an intrinsic practical value. The system of major and minor studies, of broad and representative required subjects, with large opportunities for elective work, makes it possible for the student, while pursuing a liberal course, at the same time to concentrate his attention and effort upon some one subject to such a degree as to realize in that subject a

considerable acquisition and attainment, some degree of mastery, which may be utilized in a practical way after graduation.

Location

Carroll College is very favorably located at Waukesha, a city easily accessible from all parts of Wisconsin and adjacent states, through the fact that it is situated on the three principal railway lines of the state, the Chicago and Northwestern, the Chicago, Milwaukee, and St. Paul, and the Chicago division of the Minneapolis, St. Paul, and Sault Sainte Marie (Soo Line). It is one hundred miles from Chicago by any of the above named railways, and twenty miles from Milwaukee. Hourly service to the latter city, and to the lake region adjacent to Waukesha, is provided by the electric interurban railway, and frequent service by two steam railways.

Waukesha is a beautiful and progressive city of twelve thousand population, in the populous lake region of Southeastern Wisconsin, a country of rare beauty and of high development. Situated as it is in the heart of the busy commercial and industrial section of the state, it affords, especially to students in commercial and technical subjects, rare opportunity for contact with the actual institutions and processes of trade and industry. Furthermore, Waukesha is provided with all the utilities that make for convenience and satisfaction, and with the civic and cultural institutions that provide the most favorable college atmosphere. Its proximity to, and easy communication with, Mliwaukee, and other important centers of life and activity, offer the student the opportunity of all desirable contact with the stir and movement of life in the city and with the cultural and helpful elements of city life, and at the same time, the compensating condition of withdrawal from any disturbing and distracting elements of such life.

Campus

The campus consists of a wooded tract of fifteen acres on the hills to the south of the Fox River, a most favorable situation for the college. An historic interest attaches to the campus in the presence here of several large Indian effigy mounds and an Indian cornfield.

Equipment of the College

Carroll College is well provided with the equipment necessary for the work of a progressive college. Plans have been made for a consistent and harmonious group of buildings, four of which have been completed and are now in use. These are all handsome and substantial structures of the native limestone of the region. Provision has been made for the early erection of other buildings of the group.

Main Hall

Of this group the central building is Main Hall, completed in 1900. This is a substantial building of stone, beautiful in appearance and convenient in arrangement. In the basement, or ground floor, are the gymnasium and bath and locker rooms for young men. The first floor contains the offices of the college, the rooms of the music department, and several recitation rooms. The library and chapel occupy the entire second floor, On the third floor are several recitation rooms and stack rooms for the library.

Rankin Hall of Science

The Walter L. Rankin Hall of Science, erected in 1906, through the munificence of Mr. and Mrs. Ralph Voorhees, is devoted principally to the laboratories and recitation rooms of the departments of Chemistry, Biology, Commerce, and Physics. The edifice is three stories in height with a high basement, making practically four stories. It has a south frontage of 132 feet and is 53 feet deep. All of the rooms are well lighted, ventilated, and heated. The departments of Chemistry and Physics occupy the first floor and a portion of the basement. The departments of Biology and Commerce occupy the second floor. The third floor contains a large hall for lecture purposes and two halls for literary societies.

Chemical Laboratories

The chemical laboratories are five in number: a laboratory of general chemistry, a laboratory of analytical and organic chemistry, a laboratory for water analysis, a photographic labo-

ratory, and a private laboratory for the instructor in charge. All of these laboratories are located on the first floor of Rankin Hall of Science excepting the laboratory for water analysis, which is located in the basement. Besides these laboratories there are a dark room in the basement for the storage of acids and combustible and volatile chemicals, a general supply room on the first floor, and a balance room. The balance room opens into the laboratory of analytical chemistry, and is well supplied with balances of the best makes.

The equipment of the laboratory of general chemistry is of the most modern and approved construction. It includes reagent shelves, balance shelves, air blast, and individual working desks for sixty students. These desks are provided with drawers, lockers, gas, water, and special ventilating tubes. The ventilation of the laboratory is carefully provided for. Pipes are carried from each desk to a fifty-inch steel plate fan in the basement which is driven by an electric motor and discharges into a special flue. Each desk is furnished with a complete set of apparatus, and the laboratory is well supplied with balances, chemicals, and apparatus for a thorough course in general chemistry.

The laboratory of analytical chemistry is equipped with desks for thirty-six students. It is supplied with reagent shelves, air blast, draft-chamber, and the best apparatus for accurate analytical work. The draft-chamber is connected with the exhaust fan. The laboratory opens into a balance room which contains Sartorious and Becker balances.

The laboratory for water analysis contains desks for twelve students. It is provided with chemicals and apparatus needed for mineral and sanitary water analysis.

The photographic laboratory is located on the second floor. It includes a large workroom equipped with desks, tables, and camera stands, and two modern dark rooms equipped with lockers, running water, various safe and printing lamps, and enlarging and copying apparatus.

The store room is well supplied with pure chemicals and apparatus from the best manufacturers. It is open at stated

periods for the purpose of supplying students with apparatus which is needed for special experiments.

A preparation room, equipped with chemicals, minerals, technical products, and lecture apparatus for use in the courses in experimental lectures, opens into the lecture room. The lecture table is supplied with gas, water, the electric current, and a fume chamber connected with the exhaust fan.

Mineralogical Laboratory

The mineralogical laboratory is equipped with several hundred hand specimens of minerals and crystals for work in descriptive mineralogy. The equipment also includes celluloid and wooden models of crystals and goniometers for the study of crystallography. The necessary apparatus, reagents, and minerals in bulk are provided for blow pipe analysis.

Physical Laboratories

The lecture room and laboratories of the Department of Physics occupy the west end of the first floor, and a portion of the basement, of the Rankin Hall of Science.

The laboratory of general physics is 53 x 24 feet, with a south, west, and north exposure. It is will lighted and is provided with shades of special construction for darkening the room. It contains two large wall cases, which are well supplied with apparatus for use in the study of mechanics, heat, sound, light, and electricity. The laboratory contains an instructor's table and tables for forty students working at one time. These tables are supplied with gas and water, and with electric connections with the large storage battery located in the basement. An office and store room open into this laboratory.

The lecture room opens into the office and store room. It has seats for fifty students and is provided with a lecture table supplied with gas, water, storage battery connections, and direct and alternating current. The room can be darkened at any time, and is provided with a heliostat, stereopticon, and screen. The store room is well supplied with apparatus for class demonstration and illustrated lectures.

In the basement there is a laboratory for advanced work in magnetism and electricity. In addition to a new collection of

measuring instruments and a large storage battery there are five dynamos and motors, illustrating both direct and alternating current types of machines. The laboratories are connected with the city electric plant.

Biological Laboratories

The laboratories for biology occupy the greater part of the second floor of Rankin Hall of Science. The laboratory for general biology is a large, well lighted room with desks and lockers for twenty-eight pupils working at one time. There are two microscope cases with lockers for compound microscopes and cupboards for other supplies. Adjoining this laboratory, is a preparation and general supply room, where imbedding and sectioning may be done. There is an advanced biological laboratory equipped with desks, lockers for eighteen microscopes, and cupboards for other supplies. Just off from this is a darkroom fitted for all kinds of photographic work. It is used also for experiments in plant physiology. A lecture room, accommodating fifty students, is fitted with a stereopticon and screen and can be darkened at any time.

The equipment of these laboratories includes, in addition to the fixtures already referred to, thirty compound microscopes, dissecting microscopes, microtomes for all kinds of sectioning work, including a Minot automatic rotary microtome of the latest model, a sliding microtome of the latest type, drying ovens, paraffin baths, steam sterilizer, camera lucida, stage and eyepiece micrometers, injecting apparatus, animal cages, collecting cases, gas pressure regulator, thermo-regulators, balances, and a collection of histological slides of different plant and animal tissues. Glass ware, stains, and reagents are provided for microscopical, histological, and general laboratory work. A laboratory for general bacteriology is equipped with standard apparatus of the most approved type. The laboratory for experimental biology is well supplied with instruments for the study of vital phenomena in both animals and plants. Recent additions in this laboratory include anthropometric apparatus for the complete and scientific study of the development, strength, and symmetry of the human body.

The museum, which is more fully described elsewhere, contains collections of insects, wood, shells, eggs, stuffed birds, and pressed plants, which are available for illustration. A Mountjoy Natural History Chart with colored plants of birds and other animals also belongs to the department.

Geological Laboratory

This laboratory occupies the east end of the second floor of Rankin Hall of Science. The equipment includes maps, charts, globes, and rock, mineral, and fossil specimens. Among these are thirty-five folios of the Geological Atlas of the United States; the Topographical Atlas of the United States; the Geological Atlas of Wisconsin; the Daily Weather Maps; and a collection of fifteen hundred rocks, minerals, and fossils.

A voluntary observer's station in connection with the United States Weather Bureau has been established recently at Carroll College under charge of this department. For this work the government has furnished an instrument shelter, maximum and minimum thermometer, and a rain gauge. These are used for meteorological study.

Museum

The college has acquired, by gifts from friends and by purchase, a considerable quantity of interesting and valuable illustrative material, including the following collections; the Miller case of mounted Wisconsin birds; the Haight collection of birds' eggs; the Park collection of Wisconsin woods; the Quaw collection of shells; numerous Indian relics; mounted vertebrates; placques of mounted insects; and a quantity of geological and paleontological material.

While no attempt has as yet been made to fit up a museum for public display, yet these various collections are extremely useful in connection with the regular work of instruction, and it is hoped that very soon the college may be justified in putting the large museum room on the third floor of Rankin Hall to the use for which it was originally planned. To this end gifts or loans of collections and of all sorts of objects suitable for museum purposes are solicited.

Library

Voorhees Library of Carroll College is supported by an income from the sum of twenty thousand dollars given for the endowment of the library by Mr. and Mrs. Ralph Voorhees of New Jersey, and by special appropriations. The books are carefully selected with special reference to the needs of the several departments. They are catalogued and arranged according to the Dewey system of classification. The collection includes over one thousand bound volumes of leading periodicals which are of value in reference work through the aid of *Poole's Index* and *Reader's Guide to Periodical Literature.* These files will be completed as soon as possible. The library is well supplied with standard works of reference. Reserve shelves are provided on which are placed books for special readings assigned by the various departments.

The reading-room is a large well lighted room, tastefully decorated, and furnished in mission style. Reading tables are abundantly supplied with daily and weekly papers, current magazines, literary reviews, and scientific journals. Additional space for books is provided in the stack rooms on the third floor of Main Hall.

The library is open for reading and study from 8 a. m. to 5 p. m., and from 7 to 9 p. m., except on Saturday, when it is open from 9 to 12 a. m. Students have free access to the shelves and are permitted to draw books by complying with customary library restrictions. In research work and in the preparation of orations and debates the facilities of the library may be supplemented by those of the very complete public library of Milwaukee and of the Carnegie Library of Waukesha, to both of which students have access.

Elizabeth Voorhees Dormitory for Women

This new building is the gift of Mr. and Mrs. Ralph Voorhees, and, at the request of her husband, is named in honor of Mrs. Voorhees. It was planned after a careful study of the most modern dormitories elsewhere, and embodies the best standards of comfort and convenience. Like the other buildings it is of the famous Waukesha limestone. Each floor has spacious halls and is amply supplied with lavatory facilities, and the en-

tire building is heated by steam and lighted by electricity. It is thoroughly up to date in all its details, with the appointments of a cultured home. The building has accommodations for eighty girls. Most of the rooms are intended for a single occupant, but some of the larger size are designed for two people, and there are a few suites consisting of parlor and two bedrooms.

The dining-room is large and cheery, and will accommodate one hundred and sixty persons. On the first floor of the dormitory is a large reception room with parlor adjoining, and suites of apartments for the Dean and the Matron. The domestic department is superintended by a competent, experienced Matron.

The Dean of Women presides over the social life, and is responsible for the physical and moral welfare of the young women in the home. Everything is done to surround the student with helpful, stimulating influences. There is no unnecessary or annoying surveillance; only such restraints are imposed as are needed to give the atmosphere of a well-ordered home, and to help the young women to exercise self-control and to develop well balanced Christian characters.

Definite questions of discipline and house government are regulated by the Student House Government Association. The administration of the constitution of this organization is centered in a House Council, composed entirely of students, and an Advisory Board, consisting of the Dean of Women and her associate.

Quaw Cottage

Through the kindness of Mr. and Mrs. Samual Quaw of Wausau, Wis., the old Hardy home, a handsome house of stone, adjoining the campus on the north, was purchased in the summer of 1915 and added to the equipment of the College.

Voorhees Cottage

Voorhees Cottage,—like others of the college buildings, the gift of Mr. and Mrs. Ralph Voorhees,—is the residence of the President of the college and is intended as a college home, the center of the life of the college. It is at once beautiful and convenient in all of its arrangements.

Admission

To enter the freshman class of the college, candidates must present a certificate of graduation from an accredited high school, or pass an examination upon the subjects indicated below under the head of Requirements for Admission. Testimonials of good character will be required from those who are not personally known to the authorities of the college.

Registration

Monday and Tuesday of the opening week of the college year are registration days. By special arrangement, registration may be made before these days. For the second semester students must register during the last week of the first semester.

Failure to register at the appointed time will subject the delinquent to a special registration fee of three dollars.

On registration day the student will first present himself at the office of the Dean of the college where he will arrange for the payment of the college fees and receive a matriculation card. This card he then presents to the Registrar of the college, or to a member of the Committee on Registration and Curriculum, with whom he arranges his course of study for the semester.

Admission by Certificate

Graduates of accredited schools will, on presentation of a certificate signed by the principal or superintendent, or other authorized officer, be given credit without examination for the work done. Blank forms of application for admission may be secured at any time by addressing the Registrar. They should be filled out and returned direct to the Registrar, by September first.

Admission by Examination

Candidates for admission to the freshman class, coming from schools not accredited, or having credits that are not entirely satisfactory, may have the privilege of proving themselves

worthy of entrance by taking a written examination. Such examination will be appointed for Monday of registration week.

The courses outlined in the High School Manual of the State of Wisconsin represent in general the character of the work required for admission.

Requirements for Admission

The requirements for admission are based upon a preparatory course of four years, with four subjects each year. A year's work in a subject, with five recitations per week, constitutes a unit. For unconditional admission to the freshman class, candidates must offer a total of fifteen units selected from the list given below.

The subjects in which these units may be presented with the maximum number accepted in each are as follows:

Group A

English	4	Economics	½
Greek	3	Physiography	1
Latin	4	General Science	1
French	4	Physics	1
German	4	Chemistry	1
Mathematics	3	Botany	1
History	4	Zoology	1
Civics	½	Physiology	½

Group B

Agriculture	1	Bookkeeping	1
Mechanical Drawing	1	Commercial Law	½
Manual Arts	1	Commercial Geography	½
Domestic Science	1	Stenography & Typewriting	1

I. The following units are required of all:

English	3	History	1
Mathematics	2	Science	1

II. In addition to the required units under I, the following are advised:

Foreign Language	2	units in one language
History	1	
Science	1	

III. In addition to the units prescribed and advised under I and II, a sufficient number of units to make a total of fifteen

units may be offered from Groups A and B above. Not more than four units may be offered from group B.

Foreign Language Arrangement

Students may enter the college without preparation in foreign language. If they intend to become candidates for the degree of A. B., however, they will be expected to have completed thirty-two hours in foreign language before graduation. It is highly desirable, therefore, that those who intend to seek this degree should present for admission at least two units in foreign language. However it is possible for those who have not such preparation to complete the entire amount of required work in this subject during, and as a part of, the regular college course. For the degree of Ph. B. no foreign language is required either for entrance or graduation; but it is advised that at least two years of such work be taken.

Scope of the Preparatory Work

The following description may serve to indicate, in a general way, the kind and extent of preparation necessary to meet the requirements of the college in certain of the subjects named in the preceding requirements for admission:

English

Preparation in English should be such as to accomplish two objects: (1) command of correct and clear English; (2) ability to read with accuracy, intelligence, and appreciation. Such work should include:

(a), (b) A review of English Grammar; extensive and thorough work in composition; reading of selected classics from the uniform list of college entrance requirements in English, or equivalent works. 2 units.

(c) History of English and American Literatures, with readings from representative authors of each period studied. 1 unit.

(d) Advanced study of English Classics: an intensive study of typical examples of the important and vital forms of literature. 1 unit.

French

(a) Pronunciation; the elements of grammar; reading of 100 to 200 pages of graduated text, accompanied by exercises in composition. 1 unit.

(b) Further work in grammar; 250 to 400 pages of French, chiefly prose, with appropriate exercises in composition and conversation. 1 unit.

German

(a) Pronunciation; the elements of grammar; reading of 75 to 100 pages of graduated text, accompanied by exercises in composition. 1 unit.

(b) Further work in grammar; 150 to 200 pages of German, chiefly prose, with appropriate exercises in composition and conversation. 1 unit.

5 Latin

(a) Elementary Latin; inflections and constructions. Translations and elementary prose. Outline of Roman History. 1 unit.

(b) Latin Grammar. Caesar's *Commentaries*, four books, or an equivalent. Latin Prose Composition. 1 unit.

(c) Cicero: five orations and selected letters. Latin Prose Composition completed. 1 unit.

(d) Virgil's *Aeneid*, six books; Mythology. 1 unit.

6 Mathematics

(a) Algebra, through simple quadratic equations. Special attention should be given to the use of symbols of grouping, factoring, fractions, simple linear equations and systems of equations with careful analysis of easy problems solved by them, the solution of the quadratic equations and problems involving them, and such theorems in surds and imaginaries as are necessary in the treatment of the quadratic. 1 unit.

(b) Plane Geometry, as given in Wentworth, or an equivalent text, with original problems. 1 unit.

(c) Solid Geometry, including spherical, with easy original problems. ½ unit.

(d) Algebra. Review of the work of the first year with advanced work in ratio, proportion and variation, the progressions, binominal theorem, the graph and logarithms. ½ unit.

7 Science

(a) Physics. One year's work in elementary physics, such as is covered by the standard elementary text-books. At least one-half of the work should consist of laboratory exercises. The laboratory notebook, approved by the instructor under whom the work was done, should be presented by the candidate for admission. 1 unit.

(b) Chemistry. General chemistry, recitations and laboratory work throughout the year. The ground covered should be that of the best chemistry text-books, such as Remsen's Briefer Course. The laboratory notebook, approved by the instructor under whom the work was done, should be presented. 1 unit.

(c) Zoology. One year's study of animal structures, habits and general life history will be accepted, provided that laboratory practice and field work have formed part of the course. Laboratory drawing books should be presented. 1 unit.

(d) Botany. One year's work in structural and systematic botany. Laboratory practice and field work must form an important part of the course. At least 100 hours should be given to laboratory work, besides field work. 1 unit.

(e) Physiography. One year's work. The recitation work should be supplemented by the making and study of maps, and by field work. Tarr's *Elementary Physical Geography*, or an equivalent text, is suggested. A portion of the course, from one-fourth to one-half, may include Commercial Geography. 1 unit.

(f) Physiology. Human anatomy, histology, and physiology, and the essentials of hygiene. ½ unit.

(c), (d) and (e) may be presented in half units.

8 History

(a) Ancient History to the year 800 A. D., with special reference to Greek and Roman History. 1 unit.

(b) Mediaeval and Modern History from 800 A. D. to the present time. 1 unit.

(c) A general course in American History or English and American History. 1 unit.

(d) American History and Civics. 1 unit.

Admission to Partial Courses

Students of mature years and experience who may not be able to satisfy all of the requirements for admission and are not candidates for a degree, may enter the college upon presentation of satisfactory evidence that they are prepared to pursue successfully the studies that they desire. If, at any time, such students should become candidates for a degree, they will be expected to satisfy the entrance requirements as well as all requirements for graduation.

Admission to Advanced Standing

Advanced credit may be granted in Carroll College for work done in other institutions, under certain conditions. The certified record of work done, accompanied by a letter or statement of honorable dismissal, should be sent direct to the Registrar of the college.

I. From Colleges and Universities: Full credit is given for work completed in institutions of recognized collegiate standing, upon presentation of proper credentials.

II. From Normal Schools: Graduates of the Normal Schools of Wisconsin will be granted advanced credit under the following conditions.

1. Graduates from the two-year college courses of the Normal Schools who shall have satisfied all requirements for admission to such courses, will be granted junior standing in the college, with a maximum of sixty-four hours of credit.

2. Graduates from the two-year professional courses in the Normal Schools, who shall have satisfied all requirements for admission to the college course, may be granted junior standing in the college with a maximum of sixty hours of credit. The amount of credit given will depend upon the work taken in the Normal School.

III. From High Schools: Credit may be granted for high school work in excess of fifteen units, provided the student has a record of good work in the high school and passes a successful examination in the studies for which advanced credit is sought. Under such conditions an amount of credit may be granted in college equivalent to half of the credit given in the high school.

Relation to the University of Wisconsin

An agreement has been entered into with the University of Wisconsin whereby both institutions have the same entrance requirements and the same list of accredited schools. Students who change from one institution to the other will be given the rank of sophomores or juniors, if the change is made at the end of the first or second year of their work. It is not advisable for students to make a change at the end of the junior year, but where such cases occur they will be dealt with on their individual merits. Students who include in their full course at Carroll the pre-engineering group of studies can enter the engineering department of the University of Wisconsin and complete a technical course in two years. Those who enter before graduation will be given the same credits as students who transfer from the College of Letters and Science of the University to its engineering department.

Studies and Graduation

In the grouping and arrangement of studies in Carroll College two objectives are sought:

I. A distribution of the student's effort and work among the following divisions of knowledge and study:

(1) Biblical Literature and Religion.

(2) Philosophy and Education.

(3) Language and Literature.

(4) History and the Social Sciences.

(5) Mathematics and Science.

Such object of distribution is secured in the freshman year, by a system largely of required courses, with limited opportunity of election; in subsequent years it is secured by the varied range of subjects required for degrees and by the directive influence of the college in the matter of the choice of subjects on the part of the student.

II. Concentration of a part of the student's work upon some defined field, with the purpose of attaining some approach to mastery in that field. This concentration is secured by the requirement that each student shall choose some field of study as his major subject and apply to that subject, and to related subjects, a certain minimum amount of time and effort.

Such plan of distribution and concentration recognizes and provides for the two important objectives in education, the cultural and the practical.

Plan of Work and Credits

The college year is divided into two terms, designated semesters. The unit for computing the amount of work accomplished and required is the *credit*. It is assigned to one hour of recitation or lecture, or two hours of laboratory work, per week for one semester.

The normal amount of work which a student is expected to carry in one semester is 14 to 16 hours. Students who may wish to elect fewer than 14 credit hours must secure permis-

sion to do so from the faculty. Students who have received a grade of *good* in each study of the preceding semester may take extra studies to an amount not exceeding 18 credit hours. No student will be permitted during one semester to receive more than 18 credit hours toward graduation except by permission of the faculty obtained in advance.

Degrees

Any student, who shall have completed the work required for a degree as indicated below, and who shall have been in residence at least one year immediately preceding the application for such degree, is eligible to graduation.

On the fulfillment of the requirements for graduation, and on recommendation of the faculty, the student may receive one of the following baccalaureate degrees conferred by Carroll College; Bachelor of Arts, with standard requirements in foreign language; Bachelor of Science, with slightly reduced requirement in foreign language and increased requirement in science; Bachelor of Philosophy, with the possibility of the substitution of other designated subjects for the foreign language; and Bachelor of Music, given for extensive and scholarly work in Music, together with certain designated academic subjects.

Requirements for the Degree of Bachelor of Arts

For the degree of Bachelor of Arts one hundred and twenty-eight hour credits are required, four of which may be taken in physical education, and four in extra-curricular work, such as debate, glee club, orchestra, or editorial work.

The 120 hours of recitation, lecture, and laboratory work required for graduation include:

(1) Courses required of all candidates for a degree;

(2) Courses in the major subject; and

(3) Elective courses.

1 Required Studies

The following courses are required of all candidates for the degree of Bachelor of Arts.

(a) English 1, 2: six credits, to be taken in the first year.

(b) Foreign Language: thirty-two credits in two, or more, foreign languages. These credits may be secured partly in high school and partly in the college, or wholly in the college. High school work is accepted at the rate of one unit for four college credits up to the amount of six units or twenty-four college credits. In any case a minimum of eight hours of foreign language must be taken in college.

Students must have at least four units of high school, or sixteen credits in the college, in one language, or the equivalent in combined high school and college work in one language.

Similarly students must have at least two high school units, or eight college credits, in a second language.

One high school unit in language will be accepted only in case the student successfully continues this language in the college for at least one semester.

A student, therefore, who has two years of high school language needs twenty-four additional credits for graduation; if he has had three years, he needs twenty credits, etc.

(c) The Bible: six credits.

(d) Philosophy; six credits.

(e) Mathematics: six credits.

(f) History: six credits.

(g) Science: ten credits, to consist of a one year course in biology, chemistry, or physics.

2 Major Study, Minor Study, and Thesis

Major Study: At the beginning of the sophomore or junior year each student is required to select as his major subject

the work of some one department in the college, and, in consultation with the head of this department, to determine the manner and order in which the work of the major subject shall be completed. The work required in the major subject (including thesis and required work) shall not be less than twenty, nor more than forty, hours.

Minor Study: Associated with the work in the major subject should be a considerable amount of work in a related field of study. A minimum of sixteen hours should be taken in the minor subject.

Thesis: Candidates for a baccalaureate degree may be required to present a graduating thesis, the subject of which must be approved by the head of the department in which the candidate is doing the work represented by the thesis. The thesis must represent some phase of the student's work in his major study, and must have the character of a scholarly dissertation on the subject. A maximum of four hours of credit may be given for the thesis.

3 Electives

All the work not included under 1 and 2 is elective and should be chosen in consultation with a member of the Committee on Registration and Curriculum, or with the head of the department in which the student is doing his major work. Credit toward graduation shall not be given in one department for more than forty hours.

Studies of the Freshman Year

The studies of the freshman year are largely prescribed. In addition to the prescribed courses, a limited range of choice is permitted, sufficient in quantity to constitute a total of thirty or thirty-two credit hours for the entire year.

1. The prescribed subjects are as follows:
   English 1, 2: six credits.
   Mathematics 1, 2: six credits.
   Foreign Language: six or eight credits.
   Biblical Literature, 1, 2: two credits.

2. The elective subjects are as follows:

Science: ten credits in Biology or Chemistry.
History: six credits.
Economics 1: three credits.
Commerce 2: three credits.

Studies of the Sophomore Year

In the sophomore year the student may elect any of the subjects open to freshmen, and in consultation with registering officials, more advanced courses in the following subjects:

Biblical Literature	Library Methods
Biology	Literary Interpretation
Chemistry	Mathematics
Commerce	Philosophy
Economics	Physics
English	Political Science
Foreign Language	Public Speaking
History	Sociology

The required subjects not yet completed should be included in the work of this year.

Junior and Senior Years

In these years a wide range of subjects is open to the student. By the beginning of the junior year he should have determined his major subject and should henceforth devote a considerable portion of his time to advanced, intensive work in this subject and cognate subjects.

Requirements for the Degree of Bachelor of Science

For the degree of Bachelor of Science the requirements are the same as for the degree of Bachelor of Arts, except in the following particulars:

Foreign Language: twenty-four credits.

Science: Sufficient credits in one science to constitute a strong major, and sufficient credits in a related science to constitute a strong minor.

Mathematics: twelve credits.

Requirements for the Degree of Bachelor of Philosophy

The requirements for the degree of Bachelor of Philosophy are the same as those for the degree of Bachelor of Arts, except that a larger amount of English is required, and a larger offering in some field of study other than the major, this to compensate in part for the omission of the foreign language.

Honor Credits

In addition to the quantitative measure of work and accomplishment provided in the requirement of 128 hour credits for a degree, a qualitative measure is provided in the further requirement that each student must earn at least 128 honor credits, or an approximate average in all courses of C, or higher. He must earn at least 16 honor credits per semester to maintain his class standing, and must earn at least one half of the total number required in the first two years of his college course.

Class standings are indicated by letters. A, B, C, and D are passing grades. For a grade of A in a given course, the student will receive three times as many honor credits as there are hour credits in the course; for a grade of B, twice as many honor credits as hour credits; and for a grade of C, as many honor credits as hour credits.

Preparation for Professional Courses

By a combination of the major system and required studies, Carroll College aims to secure two results for her students: to give the breadth of culture, extent of information, and training of the mental powers needed as a basis for all lines of activity; to provide for each student the opportunity of becoming well acquainted with some field of knowledge that will specially prepare him for the professional study that he may intend to pursue.

By a careful grouping and co-ordination of courses in different departments of the college, helpful and, often, time-saving approaches may be made to the various professions and technical pursuits. In some cases complete and balanced courses have been planned, preparing definitely for such objectives.

Teaching

By taking strong major work in some chosen field of study and associating with this certain required courses in the department of Education students of the College become eligible for the unlimited state-certificate entitling them to teach in the high school of the state. The teachers' course is planned to include all subjects required by the state. Arrangements have been made whereby students in the college may have the opportunity for observation and practice-teaching in the new and very complete High School of Waukesha under the direction and instruction of the Superintendent of the Waukesha Schools.

Medicine

The departments of Biology and Chemistry offer a number of courses which will be of great value to the student who enters a medical college. The laboratories of these departments are well equipped and the courses offered are designed to give the student a working knowledge of these sciences. By proper coordination of his work here with that of the medical school it is possible for the student to reduce the total number of years required to obtain the degrees of Bachelor of Arts and Doctor of Medicine. Groups of studies which are suited to the needs of the pre-medical students are described in connection with the departments of Biology and Chemistry.

Law

Like other professions, that of the law is today making large demands of preparation from those who would enter the profession. The better law schools of the country are now requiring a considerable part, or the whole, of the college course for entrance. In the courses offered in history and political science, economics, languages, English, and sociology, will be found excellent preliminary training for the successful study and pursuit of the profession of law.

Theology

In no field of work is the broad range of college subjects and study more important and valuable than in the work of the minister of religion. As an interpreter of life he should have

a wide knowledge of science, history, literature, language, philosophy, the social sciences. While courses in theology do not form a part of the college curriculum, work especially adapted to the student for the ministry is offered in nearly all of the college departments.

Engineering

No attempt is made by the college to give a complete course in engineering. At the same time much of the work of such a course is offered in the departments of Mathematics and Science, work which may apply on the course in technical school should the student wish to continue there. The courses offered in the college include the mathematics, the fundamental sciences, and the modern languages, which form an important part of all engineering courses. More technical courses, specially adapted to the engineering student, are offered in mechanical drawing, descriptive geometry, surveying, industrial chemistry, bacteriology, mineralogy, mechanics, and electrical measurements.

The courses in mathematics, physics, mechanical drawing, descriptive geometry, mechanics, surveying, and chemistry are so arranged as to enable the student of engineering to satisfy, during his freshman and sophomore years, the engineering requirements in these subjects of the first two years at the University of Wisconsin. After two years in Carroll College the student may, in two additional years, complete the requirements for an engineering degree. It is recommended, however, that he complete his college course before entering a technical school. He may thereby secure additional training of great value to the engineer, in the sciences, in mathematics, and in commercial subjects.

Chemistry

The great demand for trained chemists in the manufacturing industries and the fact that the college is so well equipped to provide the necessary training have led to the establishment of a Course in Chemistry. Graduates of this course are fitted to enter upon graduate work in chemistry, to teach chemistry, or to take positions as chemists.

Commerce and Business Administration

In recent years business has advanced to a position among the professions demanding trained and technical skill and knowledge. In consequence there has arisen a demand, constantly increasing, for men possessing, in addition to the fundamental qualities of industry, intelligence, and integrity, a thorough knowledge of principles underlying all industry and trade. In view of this situation the Course in Commerce was established in Carroll College at the beginning of the present year. This course has proved so acceptable and successful that the teaching force of the department has been increased for next year and a complete four year course in Commerce and Business Administration will be given.

In addition to the opportunities of instruction provided by the college, the student in Carroll College has the further advantage of large opportunities of contact with the actual institutions and activities of industry and trade afforded by the location of Waukesha in the busy commercial and industral section of the state.

Journalism

Work in subjects entering into a course in journalism, in the departments of language, history and political science, economics, sociology, and English, will be more largely stressed and more completely co-ordinated than in the past. During the present year a definite course in certain phases of journalism has been presented, and this work will be extended and enlarged for next year. Opportunity for practical experience is provided in connection with the various college publications, and otherwise. Occasional lectures are given by men of experience and standing in the profession.

Secretarial Work

Studies from the different departments of the college may be so grouped and related as to provide preparation for the work of a secretary or office manager. To this end new and practical courses offered by the department of Economics and Commerce will largely contribute.

Departments of Instruction

The work of the college is organized under the following Departments of Instruction:

Biblical Literature and Religious Education.
Biology.
Chemistry.
Classical Languages.
Economics and Commerce.
Education and Psychology.
English.
Geology.
German.
History and Political Science.
Home Economics.
Library Methods.
Literary Interpretation.
Mathematics.
Music.
Philosophy.
Physics.
Public Speaking.
Romance Languages.
Sociology.

The following departmental statements represent the work that the college is prepared to offer under proper conditions of need and demand. Most of the courses offered are given regularly every year. Some of the courses are given in alternate years, and a few at longer intervals. The arrangement is such, however, that a student may obtain during the normal period of college residence any course that he may need or desire.

BIBLICAL LITERATURE AND RELIGIOUS EDUCATION

Professor Davies

The courses in Biblical Literature are designed to give the student a good general knowledge of the Bible and a sane interpretation of its message.

For graduation, in addition to the two hours required of all freshmen, two three-hour semester courses are required of all protestant students.

Additional courses will be given in Religious Education as the demand for such courses becomes manifest.

Provision will be made for the development of the department to meet the needs of those who desire to major in Biblical Literature and Religious Education.

1, 2 Christian Standards of Conduct

Christian principles applied to the thought and action of individuals and groups. Selected passages from the Bible. Required of all Freshmen.

First and second semesters. One hour.

3 Old Testament History

The History of the Hebrew people in Old Testament times: the beginnings of the Hebrew race; the development of their religious and political institutions. A careful study of the historical books.

First semester. Three hours.

4 Hebrew Poetry and Prophecy

A study of the Poetical and Prophetical Books. Hebrew poetry and prophecy considered from the literary, historical, and religious viewpoints.

Second semester. Three hours.

5 The Life of Christ

A study of the life and teachings of Christ in the light of the social, political, and religious situation of the times.

First semester. Three hours.

6 The Work and Teachings of the Apostles

The founding of the Church and the early growth and expansion of Christianity as indicated in the Acts. A general survey of the Epistles.

Second semester. Three hours.

7 Christian Fundamentals

A study of the main points in Christian belief.

First semester. One hour.

8 The Social Teachings of the Bible

An examination of the social message of the Old and New Testaments with special attention to the social teachings of the prophets and of Jesus.

Second semester. One hour.

9 Religious Education

The materials and methods of religious education. For students who are planning to enter some form of Christian service as a life work, or for those who desire to equip themselves for lay leadership in Sunday school or church.

First semester. Three hours.

12 Comparative Religions

A study of the beliefs and practices of the prominent ethnic religions of the world, and a comparison of these with Christianity.

Second semester. Two hours.

14 The Church School

The organization and administration of the church school.

Second semester. Two hours.

BIOLOGY

Dr. Oliver; Mr. Potts

Biology is so presented as to satisfy the demands both of cultural and of professional objectives. The purpose is so to present the fundamental principles and laws of life as to accommodate students who elect courses in the subject because of its general cultural value, those who are planning to enter medical or other professional work, and those who may seek a teaching knowledge and training in biologic science.

1, 2 General Biology

A course presenting the fundamental laws of biology. It is the purpose of this course to lay a broad foundation for more advanced work in the department, and at the same time to supply a well-rounded body of useful information to those who may elect the course for its general cultural value. In order

to accomplish this double purpose, the work begins with the consideration of the lowest types of living things, and progresses in systematic order to the higher forms. During the first semester animals and plants are studied in parallel groups; thus are emphasized the essential unity and the progressive divergence of the two kingdoms of life forms. In the second semester, the study of invertebrate animals and non-flowering plants may alternate in successive years. Throughout, the plan is to make the course as practical as possible by applying the fundamental principles of biology to man in everyday life.

First and second semesters. Five hours.

3, 4 Vertebrate Zoology

This work is specifically planned to meet the demand for a pre-medical course along rather broad zoological lines. The comparative anatomy of vertebrate animals is presented in such a way as to afford a comprehensive foundation for the accompanying study of physiology. For a similar purpose the subject of animal histology is treated in a general way.

First and second semesters.

5, 6 Botany

A study of the structure, functions, uses, and relationships of plants. The agricultural and economic phases of the subject are made prominent.

First and second semesters. Three hours.

7, 8 Physiology

A somewhat briefer and less technical course than course 3, 4, omitting a part of the comparative anatomy and histology of that course and placing rather more emphasis upon the subject of hygiene. Students are urged to make practical personal application of the laws, principles and practices of physiology and hygiene. Especially in the second semester, the class work gives place to seminars, allowing the fullest possible freedom for the discussion of vital questions.

First and second semesters. Three hours.

9, 10 Embryology and Histology

The structure of organisms; the origin of the individual, and the processes of development from the egg to the adult; the problems of differentiation and the evidence of heredity; the

composition of the body and its organs. The course affords training in microscopical and histological technique and is adapted to the needs of general students and of those intending to study medicine.

First and second semesters. Three hours.

11, 12 Bacteriology

An introduction to the subject of bacteriology and its application in medicine, sanitation, and agricultural and industrial processes. The laboratory work includes training in bacteriological technique, the isolation and study of cultures, and the determination of unknown species.

First and second semesters. Three hours.

13, 14 Evolution and Genetics

A study of historical biology; the principles of variation, selection, and heredity; an inquiry into the bearing of this subject upon other fields of thought.

First and second semseters. Three hours.

CHEMISTRY

Professor Gilman*; Mr. Paddock; Mr. Smith; Mr. Grimmer

The courses in chemistry are designed to meet the needs of three classes of students: those who wish to gain a general knowledge of chemistry as a part of a liberal education; those who intend to study medicine or to pursue some other professional studies in which a knowledge of chemistry is necessary; and those who intend to take up chemistry as a profession. Students may acquire a general knowledge of chemistry by taking courses 1 and 2. These courses are pre-requisites for all advanced work in chemistry. For the prospective physician or engineer, a somewhat more extended study of chemistry is desirable. Students who intend to make some phase of chemistry their life work may either major in chemistry, satisfying the requirements for the degree of Bachelor of Science, (page 34), or take the course in chemistry (page 43), leading to the degree of Bachelor of Science in Chemistry. The requirements for the two degrees are substantially the same, but students who elect the course in chemistry are required to take physics,

*Resigned. Henry B Merrill, Ph. D., has been appointed Professor of Chemistry for the year 1921-22.

French, German, mathematics (through calculus), and bacteriology, in addition to the major in chemistry. Graduates of the chemistry course will be qualified for commercial positions as analysts, and will find their training of great value in executive work in many of the industries. They will also be qualified as teachers of chemistry in the secondary schools, and will be prepared to enter upon graduate work in the universities and technical schools.

In all of the courses in chemistry, much emphasis is placed upon the laboratory work. The aim of this work is to develop habits of neatness, industry, and absolute honesty, and, above all, clear thinking, accurate observation, and sound reasoning.

1, 2 General Chemistry

This is an introductory course, covering the general field of descriptive inorganic chemistry. The history, properties, and important technical applications of the metallic and non-metallic elements and their compounds are discussed in lectures and recitations, and studied in the laboratory. During the second semester, the laboratory work consists of qualitative analysis. The separation and identification of the more important acidic and basic irons is studied, emphasis being placed upon the fundamental principles underlying that analytical work.

First and second semesters. Five hours.

5 Quantitative Analysis

An elementary course in analytical chemistry. Typical analytical methods, both gravimetric and volumetric, are studied. and applied to the actual analysis of salts and simple mixtures.

Prerequisite: Course 2.

First semester. Five hours.

6 Quantitative Analysis

(Continuation of course 5). The analysis of more complex materials, such as natural minerals, and special methods of analysis applicable to waters, gases, etc.

Second semester. Five hours.

7, 8 Technical Analysis

This is a laboratory and conference course, embracing the technical analysis of gas, oils, fuels, cements, metallurgical

products, etc. Considerable latitude will be given to the student in choosing the types of materials which he wishes to study.

Prerequisites: Courses 2 and 5.

Either semester. Credit according to work accomplished.

9, 10 Organic Chemistry

A systematic study of the compounds of carbon. During the first semester, the work deals chiefly with the aliphatic series, many examples of which are prepared and studied in the laboratory. During the second semester, the aromatic compounds, including dyes, explosives, and medicinals, are taken up.

Prerequisites: Courses 2 and 5.

First and second semesters. Five hours. Given 1920-21 and alternate years.

11, 12 Physical Chemistry

A study of the fundamental laws and modern theories of chemistry, including those pertaining to the structure of matter, and chemical constitution, the factors affecting chemical change, and the relations between chemical, electrical, and thermal energy.

Prerequisites: Courses 2 and 5, and General Physics.

First and second semester. Five hours. Given 1921-22, and alternate years.

13, 14 Industrial Chemistry

A survey of the most important manufacturing processes which are based upon applied chemistry.

Two lectures and monthly inspectional trips.

Prerequisite: Courses 2 and 5.

First and second semesters. Two hours. Given 1921-22, and alternate years.

15 Inorganic Preparations

A laboratory course in the preparation of typical inorganic compounds.

Credit according to the amount of work accomplished.

Prerequisite: Courses 2 and 5.

17 History of Chemistry

This course is designed for advanced students, and consists of a study of the historical development of chemistry.

Two hours. Given in 1920-21, and alternate years.

19 Physiological Chemistry

A study of physiological processes, with laboratory work in the examination of body fluids and tissues.

Prerequisites: Courses 2, 5, and 9, and General Biology. Three hours.

21 Food Chemistry

A study of the more important types of foods, and the changes produced by heat, cold, and the action of organisms. The laboratory work consists of the analysis of foods, with special reference to the detection of adulterants.

Prerequisites: Courses 2, 5, and 9.

First semester. Three hours. Offered 1921-22, and alternate years.

22 Photography

A study of the chemical and physical processes involved in practical photography.

Prerequisite: Course 2.

Second semester. Three hours. Given 1920-21, and alternate years.

23, 24 Research in Chemistry

All students who are majoring in chemistry, or who are candidates for the degree of Bachelor of Science in Chemistry, are required to perform original work upon some selected topic. The results must be embodied in a thesis. The laboratory work will be supplemented by reading and conferences.

First and second semesters. Two or more hours.

25, 26 Seminar in Chemistry

For advanced students. Readings, discussions, and papers upon some selected field of chemistry. For 1921-22, the field covered by the seminar will be advanced inorganic chemistry.

First and second semesters. Two hours.

CLASSICAL LANGUAGES AND LITERATURES

PROFESSOR KISSLING; MISS MATTAS

In the presentation of courses in the classical languages and literatures the purpose is to lead to a realization and appropriation of both the practical and the cultural values of such study. To this end stress is laid upon the importance of the study of the ancient languages as affording helpful intellectual discipline, as contributing toward the understanding and mastery of the mother tongue, as providing literary forms and critical standards that have permanent value and application, and as leading to a sympathetic understanding of Greek and Roman thought and culture as important and vital elements in our modern civilization.

Greek

1, 2 Elementary Greek

An introduction to the study of the Greek language for beginners and for those desiring to review the elements of Greek. The course includes a thorough study of the grammar, and, in the second semester, the reading of the first book of Xenophon's *Anabasis.*

First and second semesters. Four hours.

3 Xenophon's Anabasis

A reading of four books of the *Anabasis,* with frequent exercises in the writing of Greek.

First semester. Three hours.

4 Homer

An introduction to Greek epic poetry, with emphasis on the Ionic forms and the heroic metre. The reading of several books of Homer's *Iliad* or *Odyssey.*

Second semester. Three hours.

5, 6 Lysias and Demosthenes

Selections from the speeches of Lysias and all of the *De Corona* of Demosthenes are read.

First and second semesters. Three hours.

7, 8 Greek Drama

A careful study of the development and structure of the Greek drama is made, and plays of Aeschylus, Sophocles, Euripides, and Aristophanes are read.

First and second semesters. Three hours.

9, 10 Greek Philosophy

Plato's *Apology*, *Crito*, *Phaedo*, and selections from the *Republic* are read. A course of lectures on Greek philosophy is given.

First and second semesters. Three hours.

11, 12 Greek Poetry

The Epic. The greater part of the *Iliad* of Homer is read, with especial attention to the last nine books. Text: Leaf and Bayfield. Outside reading: Murray, *The Rise of the Greek Epic.*

Odes of Pindar. Selections from the *Olympian* and *Pythian Odes* will be studied in class. Text: Gildersleeve. The entire collection, including the *Nemean* and *Isthmian Odes*, is read.

Idylls of Theocritus. The greater part of the collection will be studied. Text: Kynaston. The idylls of Theocritus, Bion and Moschus are read in Lang's prose translation.

First and second semesters. Three hours.

13, 14 Greek Testament

The following portions of the New Testament in Greek are read and interpreted: *The Gospel according to St. Mark; The Acts of the Apostles; the Epistle of St. Paul to the Romans.* Text: *The Oxford Greek New Testament.* Three exegetical papers are prepared and delivered orally by each member of the class during the year.

First and second semesters. Three hours.

Latin

1, 2 Beginning Latin

This course is open to all college students who have not had Latin in high school. A thorough study of Latin grammar is followed by a reading of selections from various authors, including the first two books of Caesar's *Gallic War.*

First and second semesters. Four hours.

3, 4 Cicero and Virgil

Six orations of Cicero and six books of Virgil's *Aenied* are read. Prose composition is required. This course, or its equivalent, is prerequisite for course 5, 6, and may be taken by students who enter college with only two years of Latin, or by those who have taken course 1, 2 in college.

First and second semesters. Three hours.

5, 6 Livy, Tacitus, Cicero, and Ovid

Livy: selections from Books 21 and 22. Special points of emphasis: grammatical construction, the growth of Roman institutions, and the period of the Punic wars.

Tacitus: *Germania* and *Agricola.*

Cicero: *De Senectute* and *De Amicitia.*

Careful tracing of all historical allusions.

Outline of Roman philosophy.

Ovid: selections from the *Metamorphoses.*

Latin prose composition.

First and second semesters. Three hours.

7, 8 Horace, Tacitus, and Plautus

Horace: the *Odes* and *Carmen Saeculare.*

Tacitus: selections from the *Annals.*

Plautus: two plays.

Prose composition and sight translation.

First and second semesters. Three hours.

9, 10 Seneca, Lucretius, and Juvenal

Seneca: three tragedies, and selections from the *Moral Essays.*

Lucretius: *De Rerum Naturae.*

Juvenal: selections from the *Satires.*

First and second semesters. Three hours.

11 Catullus and Martial

Catullus: selections from the *Odes.*

Martial: selections from the *Epigrams.*

First semester. Three hours.

12 Roman Comedy

A study of ancient comedy with reading of the plays of Plautus and Terence.

Second semester. Three hours.

13 Roman Correspondence

Selected Letters of Cicero and Pliny the Younger.

First semester. Three hours.

14 Horace: Epistles and Satires

A study of Horace's life, character, and attitude toward life and letters, with an examination of the *Ars Poetica*.

Second semester. Three hours.

ECONOMICS AND COMMERCE

Professor Abels; Assistant Professor Forsberg; Mr. Thomas; Mr. Croft; Mr. Cook

In 1920-21, economics was separated from the Department of History and Political Science and the Department of Economics and Commerce created. For the year 1921-22, a major in economics and a four-year course in commerce are offered.

The courses in economics are designed to acquaint the student with the principles underlying the economic problems of the day, the history of economic thought and labor-movements, and the influence of economic conditions upon social progress, and to furnish the economic background so necessary for success in business, social work, government service, and civic endeavor.

In view of the granting of suffrage to women and of the expansion of the vocational field for women, two courses are offered: course 13, for women who have not chosen their life work, and course 14, primarily for home economics students.

Economics

1 Industrial History of the United States

The importance of the economic factor in human progress. The economic stages from prehistoric to modern times. The economic history of the United States. Recent tendencies in economic development.

Open to all students. First semester. Three credits. Given in 1922-23, and alternate years.

3, 4 Principles of Economics

The nature and scope of economics. Principles and problems of consumption, production, exchange and distribution. Labor problems, movements and legislation in the United States. Present tendencies in economic development. A general course laying foundations for business, public service, social work, and citizenship.

Open to sophomores. Prerequisite for all courses except 1, 13 and 14.

First and second semesters. Four hours.

5 Money and Banking

Evolution of money and the mechanism of exchange. Forms and functions of money and monetary systems. History of banking in the United States. The national bank and federal reserve systems. Foreign and international banking methods.

First semester. Three hours.

6 Public Finance

Public expenditure, revenues and debts. Federal, state, and local taxes. Problems in taxation growing out of the war. The budget system.

Second semester. Three hours.

7 Statistics

Elementary principles of statistics and their application in the field of economics and business. Special consideration of the care and discrimination necessary to the formulation of judgments based upon statistical data. Lectures and laboratory work.

First semester. Three hours.

9 Labor Problems

Types, methods, and policies of labor organizations. Employers' associations and their activities. Recent developments in labor movements in the United States and Europe.

First semester. Three hours. Given in 1921-22, and alternate years.

10 Labor Legislation

The philosophy of labor legislation. Laws affecting different classes of labor. Recent tendencies in labor legislation in the United States and Europe.

Second semester. Three hours. Given in 1921-22 and alternate years.

12 History of Economic Thought

The development of economic ideas from ancient to modern times. Economic theories peculiar to the leading economists, ancient and modern.

Second semester. Three hours. Given in 1921-22, and alternate years.

13 Vocational Field for Women

Qualifications and training for occupations open to women. Advantages, disadvantages and rewards of the principal vocations for women. The social significance of women's work. A vocational conference is conducted in connection with this course.

Open to all women.

First semester. Two hours.

14 Economics for the Woman Citizen

Principles governing the field of women's chief economic interests. Consumption of wealth. The development of the home through the stages of industrial evolution. History and problems of household and institutional service. Legislation affecting women and children in industry. Current economic problems of general interest to voters.

Open to all women. Recommended for students majoring in home economics.

Second semester. Two hours.

Thirty credits are required for a major in economics. The courses chosen must include Economics 3, 4, 5, 6, and may include any other economic courses, Commerce 7, 8, Sociology 1, 2, and a thesis.

A thesis, for which from four to six credits are allowed, must be submitted by candidates for the degree of Bachelor of Arts. The thesis subject should be selected in the junior year.

Commerce

1, 2 Economic and Commercial Geography

A course designed as a part of a liberal education developing a clear conception of the environmental factors of man's economic and social progress. The influence of geography on the conditions of production and trade. The geography of important countries and the effect upon the products of farm, forest, mine, and factory. Commercial and trade routes.

First and second semesters. Three hours.

3, 4 Principles of Accounting

A course built up along the lines of modern business practice with chief emphasis upon the fundamental principles of accounting. Theories of debits and credits; classification of accounts; problems of the balance sheet; income statements, and types of business organization. Class discussion and laboratory work.

First semester, four hours; second semester, two hours.

5, 6 Advanced Accounting

Theory of partnership and corporation accounts, reserves, sinking funds, perpetual inventory, depreciation, valuation of capital stock and fundamentals of cost accounting. Lectures and laboratory work.

First and second semesters. Three hours.

7 Business Organization

Forms of business organization. Control and regulation of corporations and trusts. Problems of business administration.

First semester. Three hours. Given in 1922-23, and alternate years.

8 Personnel Administration

Problems growing out of the relation of employers to employees. Hiring, firing, promoting, profit-sharing, education. Present-day labor problems. The human element in industry.

Second semester. Three hours.

9 Transportation

The development of American transportation systems. The relation of transportation problems to marketing. Transportation agencies and their effect upon the markets of the United States. Delivery problems and transportation by motor truck. Rights and duties of carriers and shippers. The interstate commerce commission act and its interpretations in affording relief to shippers. The organization of traffic departments; duties of the traffic manager; and the relation of the traffic manager to the sales manager.

First semester. Three hours. Given in 1922-23, and alternate years.

10 Advertising

The principles and functions of advertising. Advertising media. Planning and executing advertising campaigns. The psychology, theory, technique and practice of advertising from the point of view of the planner as well as of the writer. Lectures and practical assignments.

Second semester. Three hours. Given in 1921-22, and alternate years.

11 Salesmanship

The essentials of salesmanship, in theory and in practice, in the presentation of sales propositions. Varieties of sales; the retail, wholesale, and specialty sales managers' problems; and problems of promotion.

First semester. Three hours. Given in 1922-23, and alternate years.

12 Corporation Finance

Essential principles of sound corporation finance. Forms of financial organization and management, and their relation to the general business organization of the corporation. Financial policies, promotion, underwriting, capitalization, earnings, surplus, manipulation, insolvency, receivership, reorganization and regulation.

Second semester. Three hours. Given in 1922-23, and alternate years.

13, 14 Business Law

Law as a factor in business problems. Engaging in business, licensing, regulation, unfair competition, relation of state to business in general. Contracts, with special reference to the relation of the buyer to the seller; enforcement of contracts, emphasizing the relation of the debtor to the creditor; credit safeguards and devices; agency; personal property; negotiable paper; and partnerships and corporations.

First and second semesters. Three hours.

15 Insurance

An elementary course in the principles of insurance.

First semester. Three hours.

16 Business Correspondence

An intensive training in the writing and dictating of business letters, with some discussion of the problems of management connected with correspondence. Analysis of effective thought and expression in handling business correspondence. The practice work covers a variety of letters, with emphasis on credit, collection, and adjustment letters.

Second semester. Three hours.

The Course in Commerce

The primary purpose of the Course in Commerce is to prepare students for leadership in business. To this end, studies are offered which give a broad view of business in relation to life; a thorough knowledge of the principles underlying business activity, and familiarity with the best business practice.

The locaton of Waukesha, an industrial city, within easy reach of the industries clustered around Milwaukee, and surrounded by unsurpassed agricultural and dairy country, is ideal for the first-hand observation of the practical application of economic and business principles.

Arrangement of Studies

FRESHMAN

I		II	
Biblical Literature 1	1	Biblical Literature 2	1
English 1	3	English 2	3
Mathematics 1	3	Mathematics 4	3
History 1	3	History 2	3
Commerce 1	3	Commerce 2	3
Modern foreign language	4	Modern foreign language	4
	17		17

SOPHOMORE

Science	5	Science	5
Economics 3	4	Economics 4	4
Commerce 3	4	Commerce 4	2
Modern foreign language	4	Modern foreign language	4
		English	2
	17		17

JUNIOR

Economics 5	3	Economics 6	3
Electives	13	Electives	13
	16		16

SENIOR

Commerce 13	3	Commerce 14	3
Electives	10 or 11	Electives	10 or 11
Thesis	2 or 3	Thesis	2 or 3
	16		16

For graduation, 132 credits are required. Two three-credit courses in Biblical Literature, required of all students of the college, may be elected any time after the freshman year.

Sixteen credits in one modern foreign language are required of all students of the course. For the degree of Bachelor of Arts, sixteen additional credits in foreign language are required; Psychology 1, 2 must be elected after the sophomore year and a thesis, for which from four to six credits are allowed, must be submitted in the senior year. The thesis subject should be chosen before the close of the junior year.

After the sophomore year, 18 hours must be elected from the following courses: Economics 1, 7, 9, 10, 12, 13, 14 and Commerce 5, 6, 7, 8, 9, 10, 11, 12.

Students preparing to teach must present credits for six hours of education in addition to psychology.

A laboratory fee of $1.00 for each semester is charged in Economics 7 and Commerce 3, 4 and 5, 6.

EDUCATION AND PSYCHOLOGY

PROFESSOR ROGERS; ASSOCIATE PROFESSOR BANTING

The courses in this department are designed to promote attention to the subject as a general culture interest and discipline, to provide a psychological background for any vocation, and to furnish professional training for those who are preparing to become teachers. The work is closely related to the courses offered in the other departments of the college, and is so planned as to meet the requirements of the state department of education for an "unlimited state certificate," entitling the holder to teach in the high schools of the state. In order to meet these requirements students must complete the following work: psychology, three hours; education nine hours. To meet the slightly larger requirement of other states, fifteen hours in education and psychology should be completed. In the various departments teachers' courses are organized in which the subject is considered from the viewpoint of teaching method and objective.

1 Psychology

A general introductory course in psychology. This course is prerequisite to all other courses in this department and is required of all students preparing to teach. It includes a study of the different viewpoints of approach, of the various methods and fields of investigation and the commonly accepted results of the science. Emphasis is placed upon the relation of psychology to the science of education.

First semester. Three hours.

2 The Psychology of Education

An application of the principles of psychology to the educative process, with a psychological analysis of various school subjects and of the methods of approach and development therein. A study of mental development.

Second semester. Three hours.

3 History of Education

Beginning with a glance at the beginnings of education among primitive people, a brief survey is made of the social structure of the fourteenth and fifteenth centuries followed by a detailed study of the development of the elementary school system and practices. A survey is also made of secondary instruction beginning with the Renaissance, as an introduction to the development of the American high school. Special emphasis is laid on the social, economic, and political forces that have influenced the organization, the contact, and the methods of the schools of our country.

First semester. Three hours.

5, 6 Science of Education

An approach to the field of education and its concrete problems, with the study of the underlying theories of education and of modern educational practice. This course includes a study of school systems and of school units, especially of the high school, and of the fundamental conceptions of secondary education.

First and second semesters. Three hours.

7 Organization of Secondary Education

For seniors in Education. A brief survey of the development of secondary schools in Europe and America. The modern American high school. The conditions and motives that have led to the reorganization of school systems on the six-six plan. The curriculum, its reorganization and enrichment. Industrial activities and training in the high school. Lectures, readings and discussions, correlated with observation and practical studies, in the Waukesha Junior-Senior High School.

First semester. Two hours.

Associate Professor Banting

8 Methods of Teaching in High Schools

Selection and arrangement of the subject matter; economy in classroom management; adjustment of individual differences among pupils; the problem-project method; supervised study;

laboratory methods; the use of tests in improving instruction. Lectures, readings and discussions correlated with observation and practice teaching in the Waukesha Junior-Senior High School.

Second semester. Two hours.

Associate Professor Banting

ENGLISH

Professor Starr; Miss Davies; Mr. Hoffman

In the courses offered by the department of English three objects are contemplated:

(1) A knowledge of the origin and development of the English language.

(2) An acquaintance with English and American literature.

(3) Proficiency in expression.

(1) The language is treated as a vital growth, a living organism, presenting successive stages of development corresponding to the successive stages in the development of the race. (2) The literature is presented as the reflection of the life of the nation, the artistic expression of the intellectual and spiritual forces that have entered into the formation of the national character and institutions. (3) The masterpieces of prose and poetry are so presented as to lead to an apprehension of correct principles of expression and style, and, by the application of these, to the development of the power of clear and effective expression. In general, the study of literature forms a part of the courses in composition, and practice in composition, a part of the courses in literature. Of the courses offered below, 1, 2 and 3, 4 are fundamental, and are intended to lay a foundation for the more advanced elective courses. In any year the particular courses to be given will be determined by the needs of the students desiring to elect work in the department.

1, 2 Rhetoric and Composition

A study of the forms of discourse; the preparation and criticism of written compositions; and prescribed readings in English and American prose, as embodying principles of effective

expression. The object in all the work is to present just critical standards, to cultivate the sense of literary form, and to develop the power of clear and correct expression. In addition, some time is given to the history of the English language; to the study of words, their etymologies and meanings; and to the subject of bibliography and reference work in the library of the college under the direction of the librarian. Required course for freshmen.

First and second semesters. Three hours.

3, 4 History of English Literature

A survey of the development of the English language and of the history of English literature, with study of individual authors and representative works. Collateral reading and individual reports on assigned topics are required. The relation of the literature to the history of the country is emphasized throughout.

First and second semesters. Three hours.

5, 6 Advanced Composition

A course, following English 1, 2, intended to develop further the practice of careful research and the power of clear and accurate presentation. It involves extensive reading of the best English and American prose, and leads to a variety of exercises, such as abstracts, reports, technical and historical papers, criticisms, personal essays, etc. The work of the course is related to the practical problems of expression and especially to the interest and need of those inclined toward journalism as a profession. Much of the material of the course is taken from the best current and periodical literature.

First and second semesters. Two or three hours.

6b Journalism

A course in the elements of Journalism to be taken independently or in connection with course 6. It includes lectures on mechanical equipment, structure of newspaper stories, classification of news, headline writing, feature story writing, and the editorial, with assignments to regular news sources, and the editing of copy as in a newspaper office. Opportunity for

further practical work is afforded by the students' weekly publication, *The Carroll Echo.*

Second semester. One, or more, hours.

7, 8 English Prose

A study of the principles of expression based upon the work of the best prose writers, English and American. This course is designed to enlarge the student's acquaintance with the masterpieces of prose literature, to bring him into contact with the finer elements of style, and to promote the development and application of correct standards of criticism and expression. Current and periodical literature is used as a part of the material of this course. This course alternates with course 5, 6.

First and second semesters. Two or three hours.

9 Old English

Anglo-Saxon grammar and reader. Selections from Old English prose and poetry. The history of the English language, and the beginnings of English culture.

First semester. Three hours.

10 Middle English

A continuation of course 9. This course is devoted chiefly to the literature of the fourteenth century, with special attention to the works of Chaucer and Langland, the metrical romances, and the beginning of the drama. It includes the reading of Langland's *Piers Plowman*, Chaucer's *Canterbury Tales*, and some of the metrical romances of the time.

Second semester. Three hours.

11, 12 American Literature

A study of American literature, both prose and poetry, with special emphasis upon its relation to American life and thought, and to contemporary English literature. Consideration of American periodical literature, including the newspaper, forms a part of this course.

First and second semesters. Three hours.

13, 14 The Essay

A study of the development of the Essay as a definite literary form, with reading of the works of the principle essay-

ists, especially of recent and contemporary writers, and attention to the development of English prose style and to literary criticism. The Essay in relation to modern life, and in its various forms and uses.

First and second semesters. Three hours.

15, 16 Poetry of the Nineteenth Century

Reading and study of the poetry of England and America in the nineteenth century, with special attention to the romantic movement of the early part of the century, and to the intellectual and spiritual movements of the later century as revealed in the poetry of the time. The course includes some study of the principles of poetry.

First and second semesters. Three hours.

17, 18 The Novel

A survey of the development of narrative literature, with critical study of the novel and short story as vital forms of modern literature. Extensive reading and analysis of selected works.

First and second semesters. Three hours.

19, 20 Contemporary Literature

Reading, lectures, and reports in connection with the most important works in the literature of the day, including the magazines and other forms of periodical literature. This course may be given in combination with other courses.

First and second semesters. One or two hours.

21, 22 Victorian Literature

A study of the literature of the later nineteenth century with intensive application to the great writers of the time as interpreters of the social, intellectual, and spiritual movements and forces of the time.

First and second semesters. Three hours.

For courses in Shakespeare and the Drama, see department of Literary Interpretation, page 72.

FRENCH

See Department of Romance Languages, page 85.

GEOLOGY

At present only a limited amount of work is offered in this department. The subject is considered primarily in its basic relation to the biological sciences. In addition to its fundamental bearing upon biological problems, the work of this department should be of great value to those who may engage in the teaching of geography and physiography.

11 General Geology and Physiography

This course consists of a brief general survey of the subject of earth forms, physiography, structural, dynamic, and economic geology, and the chief facts of paleontology. The work of the course includes recitations from a text-book, illustrated lectures, reports on assigned reading, section-drawing from geological maps, and laboratory and field study of typical rocks, soils and physiographic forms.

First and second semesters. Three hours.

GERMAN

PROFESSOR KISSLING

Courses in German are offered because of the value of German in connection with the study and pursuit of commerce and science, and as affording an approach to the wealth of German literature, particularly of its poetry and philosophy.

1, 2 Beginning German

Open to all students who enter without German. Thorough drill in the essentials of the German grammar, pronunciation, conversation, composition, and acquisition of a good vocabulary. Selected readings in easy prose and verse.

First and second semesters. Four hours.

3, 4 Intermediate German

This course combines a thorough review of German grammar with frequent exercises in prose composition, in dictation, and in conversation. About 250-300 pages of German of a more

advanced nature will be read in class, accompanied by oral and written reproductions of the text.

First and second semesters. Three hours.

5, 6 Third Year German

The syntax of German grammar will be thoroughly studied with frequent exercises in composition, both in translating prescribed matter and in writing brief themes. About 300 pages of good prose and poetry will be read with emphasis on correct pronunciation, vocabulary, idiomatic locutions, and style.

First and second semesters. Three hours.

7, 8 Scientific German

In this course provision is made for the special needs of students by offering readings in scientific German. Emphasis will be placed on the reading and interpretation of the German text, with grammatical reviews at stated intervals.

First and second semesters. Two hours.

9, 10 German Literature

Reading of selected masterpieces of German literature, with study of literary periods and individual authors.

First and second semesters. Three hours.

GREEK

See Department of Classical Languages, page 47.

HISTORY AND POLITICAL SCIENCE

PROFESSOR CLARK

In offering the following courses the Department of History and Political Science has in view the various interests and needs of students pursuing commercial or general culture courses, and of those expecting to teach in high schools or to continue in graduate work as a preparation for more advanced teaching and research positions. Hence special attention is given to the materials and methods of historical study. While due attention is given to political history, the aim of the department is so to acquaint the student with social customs and

conditions, industrial pursuits, and religious and cultural institutions, to give such a knowledge of vital conditions and elements in the growth of the leading countries of the world as may lead to a better understanding of our present civilization.

History

1, 2 General History of Europe

A study of the history of Europe from the time of the Germanic Migrations to the present. The course is a study of the progress in civilization, the development of the social and political life of the people, and the rise of modern nations.

First and second semesters. Three hours.

3, 4 History of the United States

This course is a survey of the history of the United States from the colonial period to the present time. Attention is given to the commercial and industrial development of the nation, as well as to the constitutional and political history.

First and second semester. Three hours.

5, 6 History of England

The history of England from the earliest times to the time of the Norman conquest is briefly considered. Attention is given to the period from the twelfth century to the present time with increasing emphasis upon the later centuries. The aim is to study the growth of liberty, the characteristics of the British constitution, the development of the empire, and to note the social and industrial history of the nation.

First and second semesters. Three hours.

7 Recent American History

An intensive study of American history from the end of the Civil War to the present, with special attention to the manner in which the United States has acquired an international standing and importance. The course is concluded by a thorough consideration of contemporary conditions and problems.

First semester. Two hours.

8 Recent European History

An intensive study of the recent history of Europe; particularly of England, with emphasis on constitutional and economic considerations.

Second semester. Two hours.

9 The Renaissance and the Reformation

Special survey of the period from 1300 to 1550, with reference to the transition from mediaeval culture to modern. A text-book will be used.

First semester. Two hours.

10 The French Revolution and Napoleonic Era

A special study of the causes, events, and results of the years 1789 to 1815. The political and social changes are emphasized in respect to recent history.

Second semester. Two hours

11 The United States and Latin America

This is a study of the countries south of the United States in their political and social development with special respect to their relations to the United States. Emphasis is placed on their forms of government, their resources, and their progress toward recognized international positions.

First semester. Two hours.

12 Japan and the Far East

The awakening of Japan, her acquisition of a modern civilization, and her place in the modern world are studied in connection with the situation in the Far East. Japanese influence upon China, Siberia, and the Pacific is considered with reference to the position of the United States and her interests.

Second semester. Two hours.

13, 14 Current History

Current History is based on material furnished by the magazines and papers with year books and other current publications. The most important questions especially in their

historical and economic aspects are presented for discussion. Open to students in the history department. Not to count on the required history credits.

First and second semesters. Two hours.

15, 16 Historical Method

This is a course for students majoring in history, who intend to pursue the study of history or social sciences in a graduate school. It is an introduction to methods of investigation and research. The work is such as is required of those doing graduate work.

First and second semesters. One hour.

Political Science

1 American Government

This is a general study of the American government, having special reference to the sources and development of the federal constitution, the state constitutions, the organization and working of our federal, state and municipal governments, with allied political and social agencies.

First semester. Three hours.

2 American State and Local Government

A continuation of course 1. State, city, county and other forms of local government are studied with special reference to the state of Wisconsin and its history.

Second semester. Three hours.

3 Comparative Government

The governments of England, France, Italy, Germany, and Japan are studied with respect to the forms of government and methods of operation. The likenesses and differences are pointed out. The ways in which they embody modern principles of political science are considered, as well as their similarity to the United States Government.

First semester. Three hours.

4 Political Parties and Party Government

The origin of organized political action in England is traced from the seventeenth century. Its spread to the continent and development in the United States are followed. The various characteristics of parties in the several countries are compared for general principles of party action.

Second semester. Three hours.

5 International Law

The relations between the nations, written and customary; origin and development of these relations; functions and privileges of diplomatic and consular representatives; treaty making; rights of belligerents and neutrals form the subject matter of this course.

First semester. Two hours.

6 American Diplomacy

The special attitude of the United States toward other nations, the principles underlying these relations, the Monroe Doctrine, are studied.

Second semester. Two hours.

7 Municipal Government

A history of the different forms of city, political and administrative organization in ancient, mediaeval and modern times in Europe, and in the United States especially. The present form and operation of the various systems as illustrated in the leading laws of the various nations. Special attention to conditions and experiments in the United States.

First semester. Two hours.

8 Political Theories

A study of the various theories advanced as to the form and functioning of political institutions and the causes of political activities. Views of leading political thinkers are considered. Acquaintance with a wide variety of political thinking is encouraged.

Second semester. Two hours.

HOME ECONOMICS

MISS GUTHEIL

The Home Economics department offers work to be taken as a part of the regular college course. Students majoring in the subject must complete the four-year college course, meeting all the requirements for graduation. A two-year course is not offered, since the longer course gives a more completely rounded field of study.

The laboratories are situated on the second floor of Rankin Hall, and are well-lighted and well-equipped rooms, with all facilities for efficient work. Students intending to enter the classes in Foods are asked to come supplied with white or blue cotton or linen dresses, and white aprons.

1 Art and Design

A study of the principles of design and color, with exercises in composition of lines and areas, in value, and in color; examples in nature, pictures, etc.; applications of design to problems of the home.

First semester. Three hours.

2 Foods

The classification of foods, their composition, functions, relative costs, place in the diet, and the methods and principles of cookery; the planning and serving of meals.

Prerequisite: Chemistry 1.

Second semester. Three hours.

3 Introduction to Textile Study

The study of textile weaves and fibers, with their physical properties and application to the selection and use of materials; the drafting and use of patterns; the technique of hand and machine sewing applied in the making of cotton garments, with special consideration of costs and qualites of fabrics.

First semester. Two hours.

4 Textiles

Further study of textile fibers: their chemical properties; the chemistry and processes of manufacture of textile fabrics,

such as dyeing, bleaching, etc.; the qualities, weaves, and adulterations of fabrics; a study of the history of the textile industry; laundering problems.

Prerequisite: Chemistry 1, Home Economics 3.

Second semester. Three hours.

5 Food Economics

Economical buying and selection of foods; care, storage and preservation of foods; pure food laws and problems of the food supply; practical work in cookery and meal service.

Prerequisites: Chemistry 1, Home Economics 2.

First semester. Three hours.

6 Home Nursing and Child Care

Methods used in home nursing and first aid; the food requirement and care of children.

Prerequisite: Physiology.

Second semester. Two hours.

7, 8 Clothing

Study of clothing problems: selection and use of materials; taste in dress and designing of costumes; hygiene of clothing; the clothing budget; conditions in the clothing industry; comparison of home-made and commercial products. The laboratory work includes the making of cotton, linen, wool, and silk garments.

Prerequisite: Home Economics 3.

First and second semesters. Six hours.

9 House Planning

Planning and sketching of houses of various types and for various conditions, with reference to design, structural features, and appropriateness.

Prerequisite: Home Economics 1.

First semester. Two hours.

10 Decorating and Furnishing of the Home

The application of design to the finishing of house interiors, furnishings, and furniture, with special consideration of fitness

and appropriateness; a study of furniture and furnishings; laboratory exercises in plans of rooms, windows, color schemes, and other phases of the problem.

Prerequisite: Home Economics 1.

Second semester. Two hours.

11 Household Management

Problems of the household: construction, drainage, and arrangement of the house; lighting, heating, plumbing, and ventilation; furnishing, equipment, and storage; household budgets and accounts; cleaning processes employed in the home; conducting of work; standards of living.

Prerequisites: Chemistry 1, Home Economics 2, 5, Bacteriology.

First semester. Three hours.

12 Dietetics

The food requirement and diet as affected by age, weight, and occupation; balancing of rations; dietary standards; study of diet in common abnormal conditions, and invalid and convalescent dietaries; the planning and serving of dietaries for various conditions.

Prerequisites: Chemistry 1, 9, 10, Home Economics 2, 5, Physiology.

Second semester. Four hours.

13, 14 Thesis

A special problem related to some phase of Home Economics, done either individually or by a small group.

The thesis is elective, but strongly recommended, since it gives an opportunity for extensive study on some special topic or problem.

First or second semester of senior year. Two to four hours.

LATIN

See Department of Classical Languages, page 48.

LIBRARY METHODS

MRS. MORRIS

1, 2 Library Methods

This course is especially designed to enable those who are preparing for teaching to organize school libraries and to direct reference work. In addition to a systematic study of the resources of a library, particular attention is given to methods of classification, cataloguing, and general library administration. The course is open to juniors and seniors and may be given in connection with one or more of the courses in Education.

First and second semesters. Two hours.

LITERARY INTERPRETATION

PROFESSOR RANKIN

The purpose of this department is to develop the power of interpreting literature for personal pleasure, for public presentation, or for teaching English or public speaking.

The method of instruction is founded upon psychological laws and develops the sources of power through natural expression. It involves culture of the broadest kind, requiring intellectual concentration, aesthetic appreciation, and power to control an audience.

5, 6 Platform Art

Story telling: interpretation of literature; repertoire. Texts: *How to Tell Stories to Children*, Sara Cone Bryant; *Evolution of Expression*, Charles W. Emerson.

First and second semesters. Three hours.

7, 8 Normal Course in Literary Interpretation and Public Speaking

Study of high school problems. Practice in teaching story telling, literary interpretation; extemporaneous speaking; debate, repertoire; staging of plays; physical culture; voice culture.

First and second semesters. Three hours.

9 Dramatic Art

Shakespeare: Intensive study of two plays, with dramatic presentation of scenes. *Romeo and Juliet, Midsummer Night's Dream.*

First semester. Three hours.

10 Dramatic Art

Modern Drama: The One Act Play. Study of Little Theatre Movement. *The Silver Box*, Galsworthy.

Second semester. Three hours.

11, 12 Voice Training

Exercises for freeing and enriching the voice.

First and second semesters. One hour.

13, 14 Shakespeare

History of the classic drama and of English drama from the beginning to 1642 when the theatres were closed. Reading of all of Shakespeare's plays. Intensive study of the dramatic art and ethical problems of two tragedies, two comedies and two historical plays. Texts: Hudson revised edition; *Introduction to Shakespeare*, McCracken, Pierce and Durham; Oxford edition of Shakespeare, one volume. Collateral reading: *Development of the Drama*, Brander Matthews; *Play Making*, William Archer.

First and second semesters. Three hours. Given in 1921-22.

15, 16 Modern Drama

Continental Drama. Scandinavian, Belgian, French, German, Russian, Spanish drama. Ibsen, Bjornson, Strindberg, Maeterlinck, Sardou, Scribe, Augier, Rostand, Brieux, Hervieu, Hauptmann, Sudermann, Tchekhov, Echegeray. Texts: *Continental Drama of To-Day*, Barrett Clark; *Chief Contemporary Dramatists*, Dickenson.

British and American Drama: Jones, Pinero, Baker, Wilde, Galsworthy, Phillips, Parker, Shaw, Masefield, Barrie, Francis, Yeats, Synge, Lady Gregory, Lord Dunsany, Howard, Gillette Fitch, Thomas, Moody, Belasco, Mackaye, Sheldon, Crothers.

Texts: *British and American Drama of Today*, Barrett Clark, Collateral reading: *Technique of the Drama*, George P. Baker.

First and second semesters. Three hours. Given in 1922-1923.

To college students wishing to specialize in Literary Interpretation a two-year professional course is offered. If a student plans his work at the beginning of his college course it is possible to secure at the end of four years, the degree of B.A., and also a certificate of graduation from the Department of Literary Interpretation. Twenty-five private lessons are required of candidates for graduation and for these a special fee of fifty dollars is charged. Each candidate for graduation presents publicly the dramatic interpretation of a play. Graduates who return for an additional year of work in the department receive the degree of Bachelor of Literary Interpretation.

The following courses are required for graduation in Literary Interpretation:

5, 6	Platform Art	6 hours
7, 8	Normal Course	6 hours
9, 10	Dramatic Art	6 hours
11, 12	Voice Training	2 hours
13, 14	Shakespeare	6 hours
15, 16	Modern Drama	6 hours
	Public Speaking 1, 2	6 hours
	English 1, 2	6 hours
	Psychology 1, 2	6 hours
	Biblical Literature	4 hours
	Electives	12 hours

Two plays are given during the year under the direction of the department. Students may be secured as readers by application to the head of the department.

MATHEMATICS

PROFESSOR DANCEY, MR. FRIES, MISS GREENGO

The following courses in mathematics will provide material for such training and culture as may be deemed essential to every symmetrically developed mind, and will prepare the student for the various branches of science in which mathematical

analysis is employed. Students who intend to specialize in any department of applied mathematics should not omit any branch of pure mathematics which may be necessary to equip them properly for their chosen field.

1, 2 Freshman Mathematics

This is a unified course in freshman mathematics based upon the idea of functionality. Advanced algebra, trigonometry and analytical geometry are co-ordinated to impart a working knowledge of the subject matter and principles of mathematical analysis. Required of Freshmen.

First and second semesters. Three hours.

1a, 2a Freshman Mathematics

A year course co-ordinating material from algebra, trigonometry, analytical geometry, and the element of differential calculus. Planned for engineering students, and for those majoring in mathematics.

First and second semesters. Five hours.

3 Advanced Unified Mathematics

A continuation of courses 1, 2 following the same general method and culminating in an introduction to the Calculus. The course includes work in theory of equations and determinates, the elements of solid analytic geometry, applications to physics and surveying.

First semester. Three hours.

4 Commercial Algebra and Mathematical Theory of Investment

A practical course dealing with the principles of interest and annuities, amortization, valuation of bonds, sinking funds and depreciation, building and loan associations, theory of probability, life annuity, problems in life insurance. The course includes numerous practical problems and a review of the progressions, limits and series, logarithms, and graphical representation.

Prerequisite: Mathematics 1, 2.

Second semester. Three hours.

5, 6 Differential and Integral Calculus

A course in the fundamental processes of differentiation and integration with the applications of these processes to scientific problems.

First and second semesters. Three hours.

7 Advanced Calculus

This course is a continuation of course 5, 6. Emphasis is placed upon the solution of problems involving the definite integral, the use of the polar planimeter, and the elements of differential equations.

Prerequisite: Mathematics 5, 6.

First semester. Three hours.

8 Differential Equations

The integration of the various classes of differential equations with applications to problems in geometry and the physical sciences.

Prerequisite: Mathematics: 7.

Second semester. Three hours.

9 Advanced Mathematics

This course will be selected according to the particular needs of advanced students, from the following courses: Theory of Equations and Determinants, Solid Analytic Geometry, Theory of Functions, Advanced Mechanics.

First semester. Three hours.

10 Descriptive Geometry

Problems relating to point, line and plane, lines and surfaces, tangent planes, intersections, developments, shades and shadows. The course requires four hours in the drawing room and two recitations per week. Text: Miller's *Descriptive Geometry.*

Second semester. Three hours.

11, 12 Mechanical Drawing

This course presents the elements of machine drafting. Instruction is given in the use of instruments, lettering, sketch-

ing machine parts, working drawings, tracing, and blue-printing. Students are required to provide themselves with instruments of good quality. Text book: *Mechanical Drawing*, Phillips and Orth.

First and second semesters. Three hours.

13, 14 Surveying

Lectures, recitations, field and office work in the theory, care, use and adjustments of instruments, in the platting of areas and profiles, and in the making of topographic maps. The field work includes the use of the chain and tape, determination of areas with tape and transit, differential and profile leveling, running of lines and traverses, triangulation, use of the plane table, observation on the sun and Polaris, and the use of the stadia.

First and second semesters. Three hours.

MUSIC

PROFESSOR SHEPARD; PROFESSOR ORMSBY; MISS LAU

Students in the college have an opportunity of electing certain work in music which has recognized cultural and scholarly value. A maximum credit of twelve hours in Theory, History of Music, Appreciation of Music, and related subjects may be allowed toward the degree of Bachelor of Arts.

A further presentation of the work in music may be found under the statement of the School of Music on page 88.

1a, 2a Harmony

Elementary course. Music notation, knowledge and use of the various clefs, the principle of transposition; keys, scales, signatures, intervals, triads and their inversions, chords of the seventh, and harmonization of melodies and figured basses.

First and second semesters. Two hours.

1b, 2b Keyboard Harmony

The practical application of the work in Harmony 1a, 2a. The playing of scales, chords, chord progressions, modulation, and the harmonization of melodies and figured basses, and transposition at the piano.

First and second semesters. One hour.

1c, 2c Ear-Training and Solfeggio

A course correlated with the course in Harmony 1a, 2a. The dictation and singing of scales, intervals, chords, chord progressions and modulation.

First and second semesters. Two hours.

3a, 4a Harmony

Advanced course. Study of chord relationships, and progressions, modulation, altered chords, enharmonic changes, suspension, ornamental tones, organ point, melodic figuration and accompaniment. The work is done through the harmonization of melodies and figured basses.

First and second semesters. Two hours.

3b, 4b Keyboard Harmony

Continuation of Course 1b, 2b.

First and second semesters. One hour.

3c, 4c Ear-Training and Solfeggio

Continuation of course 1c, 2c.

First and second semesters. One hour.

5, 6 Counterpoint and Advanced Harmony

Supplying two, three, or more additional voices in the five orders of counterpoint to choral melodies and otner canti firmi.

First and second semesters. Two hours.

7, 8 Counterpoint; Canon and Fugue

Double counterpoint in three, four, or more parts. The study and writing of canons in the various intervals, and of figures in three and four voices, with careful study of the works of Bach and other contrapuntal masters.

First and second semesters. Two hours.

9, 10 Composition

Practice in the homophonic forms of composition. Phrase and period formation, song forms, dance forms, conventional styles of composition, and the sonata form.

First and second semesters. Two hours.

11, 12 Practical Musicianship

A course designed to enable students of music to make their theoretical knowledge directly applicable to the interpretation of music.

First and second semesters. One hour.

13, 14 History of Music

A general survey of musical history from its crudest to its most perfect forms, with illustrations and lectures.

First and second semesters. One hour.

15, 16 Harmonic Analysis

Analysis in detail of the harmonic and contrapuntal structure of examples from the composition of classical and modern composers.

First and second semesters. Two hours.

17, 18 Musical Forms and Analysis

A study of the development of vocal and instrumental music and the analysis of its construction from the simple phrase to the more complex forms such as the sonata and symphony, with illustrations from classical and modern composers.

First and second semesters. Two hours.

19, 20 Musical Forms and Analysis

A continuation of course 17, 18 with complete analysis of the greater compositions—Mozart, Beethoven, Mendelssohn, and of the fugues of Bach.

First and second semesters. Two hours.

21, 22 Musical Appreciation

Lectures on the growth and development of music and its relation to the other arts and literature. The analysis of music forms and a general survey of musical literature with illustrations, vocal and instrumental. This course requires no previous knowledge of music and is open to students in all departments of the college.

First and second semesters. One hour.

23, 24 Ensemble Playing and Singing

First and second semesters. One hour.

25, 26 Public School Music
First and second semesters. Two hours.

27, 28 Public School Music
First and second semesters. Two hours.

29, 30 Normal Methods in Piano
First and second semesters. Two hours.

31, 32 Normal Methods in Voice
First and second semesters. Two hours.

PHILOSOPHY

PROFESSOR ROGERS

The work in this department is designed to familiarize the student with the more fundamental lines of philosophic thought and to enable him to think consistently and independently on the ultimate problems of reality, the physical world, and the human self, and to entertain clear ideas of the relations of these problems to his own life and conduct. To this end the courses in history of philosophy, logic, and psychology have been planned to meet the needs of those students who may elect the work for general culture and discipline, and also for those students who may wish to pursue the work with a special interest in philosophy or education.

In addition to its own intrinsic value, the work in Philosophy has added value to the student in that it may serve to indicate in a measure the relations and correlations of the work of other departments and thereby to render them collectively more helpful.

1 Logic

This course considers deductive and inductive logic with a criticism of various theories of knowledge. Special attention is directed to the analysis of logical arguments and to the detection of fallacies in reasoning. Logic is shown to be an instrument in the formation of new ideas and new knowledge through contact with the world of experience.

First semester. Three hours.

2 Ethics

A historical and critical study of ethical theories, the psychology of ethics and the relation of ethics to religion. This is a descriptive and genetic consideration of moral ideas and practices in different civilizations at various stages of their development and their relaton to present social problems.

Second semester. Three hours.

3, 4 History of Philosophy

Ancient, mediaeval and modern philosophy. A review of the development of philosophical thought from the early Greeks and Orientals to the present. The different philosophical systems are presented in their relation to the civilization of which they are a part and an estimate is made of their social, political, and religious significance.

First and second semesters. Three hours.

5, 6 Philosophy

General introduction, philosophical problems, and recent tendencies. A study of the deeper permanent problems of nature, mind and life, with some solutions of them taken from ancient and modern systems. A critical comparison is made of materialism, idealism, and pragmatism.

First and second semesters. Three hours.

7, 8 Religion

The history, comparison, and philosophy of religions. A study of the origin and growth of religion, a comparison of the great systems in their doctrines of God and man, sin, salvation, worship and service, of death and immortality; and an endeavor to find the ultimate meaning of man's religious nature.

First and second semesters. Three hours.

9, 10 Christian Theism

A study of the arguments for belief in the being, nature, and attributes of God, and for faith in the fact and trustworthiness of His self-revelation; with a criticism of some anti-theistic theories.

First and second semesters. Three hours.

PHYSICS

PROFESSOR DANCEY; MR. BATHA

It is the aim of the department of Physics to present courses which will furnish preparation for technical work, for teaching, or for advanced scientific study. Physics relates itself in such a way to other sciences and to mathematics as to make it a very desirable course for the student who expects to pursue the study of either science, mathematics, or engineering. From the cultural standpoint physics should be of interest to any one who wishes to acquaint himself with the laws of nature. Recent advances in the sciences make the understanding of underlying principles especially desirable.

1, 2 General Physics

A comprehensive outline of the principles of physics treating the general subjects of mechanics, heat, sound, electricity, magnetism, light and the history and progress of physics. The treatment is descriptive rather than mathematical. Theory and experiment are carefully correlated in classroom and laboratory to the end that the student may gain a thorough grasp of physical principles. Text book: *College Physics.* Kimball.

Prerequisite: High School Algebra. College Algebra and Trigonometry should be taken as a parallel course. Open to freshmen.

First and second semesters. Four hours.

3 Mechanics, Molecular Physics and Heat

Three class room periods and a minimum of four hours of laboratory work per week. Text book: *Mechanics, Molecular Physics and Heat,* Millikan.

Prerequisite: course 1.

First semester. Four hours.

Courses 2 and 3 are based upon fifty-one experiments in the subjects named. Each subject treated theoretically has its application in an experiment performed in the laboratory. Especially designed apparatus makes possible accurate quantitative results. The aim is to acquaint the student with methods and instruments of modern physical investigation and to give

him a comprehensive grasp of the analytical theory involved. Students preparing to teach either science or mathematics, to follow engineering or chemistry, or to pursue advanced physics should elect these courses.

4 Electricity, Magnetism, Sound, and Light

Three class room periods and a minimum of four hours of laboratory work per week. Text-book: *Electricity, Sound and Light*, Millikan and Mills.

Prerequisite: Physics 1, 2.

Second semester. Four hours.

5, 6 Electricity, Magnetism and Electrical Testing

The course is arranged for students of physics and electrical engineering. The theoretical discussions are accompanied by precise measurements of resistance, electromotive force, current, capacity and inductance and practical electrical testing covering the operation of dynamos, motors and transformers. Text-book: *Electricity and Magnetism*, Starling. Experiments are taken from standard manuals.

Prerequisite: Physics 4 and Calculus.

First and second semesters. Three hours.

7 Light

A study of geometrical and physical optics based upon Edser's *Light for Students*. The course deals with the laws of reflection and refraction as illustrated in the more important optical instruments and with the development of the wave theory of light. The laboratory work includes accurate measurements in interference, dispersion, diffraction and polarization.

Prerequisite: Physics 4.

First semester. Three hours.

8 Heat

A study of molecular physics, calorimetry, thermodynamics, radiation and pyrometry, accompanied by accurate laboratory measurements. Text-book: Edser's *Heat for Advanced Students.*

Prerequisite: Physics 4.

Second semester. Three hours.

9 Recent Advances in Physics

A review of recent developments in the physical sciences dealing with radioactivity, X-rays, photo-electricity, electron theory and wireless telegraphy.

Prerequisite: Physics 5, 6 and Calculus.

First semester. Three hours.

10 Theoretical Mechanics

An advanced theoretical discussion covering the principles of statics and dynamics. The theory is accompanied by numerous practical problems chosen largely from the field of engineering. The course is fundamental to the study of engineering, theoretical physics or celestial mechanics.

Prerequisite: Mathematics 7 and Physics 1, 2.

Second semester. Three hours.

PSYCHOLOGY

See Department of Education and Psychology, page 57.

PUBLIC SPEAKING

Professor Davies

The department of Public Speaking, reorganized for next year, will offer work in argumentation, debate, and oratory, helpful to those who are planning for careers which involve public and oral presentation of truth and principle.

1, 2 Orations and Debate

Study of the oration as a literary type; different forms of public address; analysis of famous speeches; original composition, revision, and training for public utterance. Analysis of a proposition for debate; brief-drawing, evidence, forms of argument, refutation, and the psychology of persuasion. Foster: *Argumentation and Debating* revised edition. Required for all intercollegiate orators and debaters. Elective for others.

First and second semesters. Three hours.

3, 4 Seminar in Public Speaking

Historic survey of oratory. Forensic masterpieces of Greece, Rome, and Continental Europe will be read in transla-

tion; famous British and American speeches; contemporary public speaking. Written and oral reports. Advanced study of composition and delivery. Practice coaching of underclassmen. Open to seniors excelling in oral work and qualified to direct beginners.

First and second semesters. Three hours.

5, 6 Seminar in Debate

Tryouts for intercollegiate debate will occur the third Thursday in November. After that date the intercollegiate debaters will substitute for course 1 and 2 or 3 and 4 course 5 and 6. The work will then be direct preparation for public debate.

ROMANCE LANGUAGES

PROFESSOR ROCKWOOD

The aim of the elementary and intermediate French and Spanish courses is to acquaint the student with the language, to enable him to read and translate and, to a certain extent, to write and converse. The third and fourth year courses consist of the study of literature and require class-room translation and collateral reading.

French

1, 2 Elementary French

Pronunciation. Elements of grammar, illustrated with oral and written exercises. Regular and most common irregular verbs. Reading and writing simple French. Practice in French conversation.

First and second semesters. Four hours.

3, 4 Intermediate French

Review and advanced French grammar. Irregular verbs. Reading of French prose with questions in French based on the text. Composition. A French paper, *Le Petit Journal*, is used in class.

First and second semesters. Three hours.

5, 6 Nineteenth Century French Prose

Reading of works of nineteenth century French authors, Daudet, Hugo, Maupassant, and George Sand. Outside readings and reports. Class discussions.

First and second semesters. Three hours.

7, 8 Eighteenth Century Literature

A study of Voltaire and Rousseau and the relationship of their ideas to the French Revolution; Montesquieu, Buffon and the Encyclopedists. Drama and Novel. Class-room translations. Outside readings. Class reports and discussions.

First and second semesters. Three hours.

9, 10 Sixteenth Century Literature

Study of some of the works of the following authors: Marot, Rabelais, Calvin, Montaigne. Literary ideas during the French Renaissance.

First and second semesters. Three hours.

Carroll College French Club

All French students who have had at least one year of French may become members of the French Club, which meets once every two weeks. The object of the club is to supplement the work of the class-room. The programs aim to acquaint the student with the country of France and the French people, their history, literature, music, art, customs and language. A part of each program is devoted to French conversation. Some of the members of the club correspond with students in France.

Spanish

1, 2 Elementary Spanish

Elementary course in grammar, composition, and reading. Regular and irregular verbs. Oral and written translation from English into Spanish. Dictation exercises. Practice in Spanish conversation.

First and second semesters. Four hours.

3, 4 Intermediate Spanish

Reading of Spanish prose. Composition and conversation. Review of grammar. *El Eco*, a Spanish paper, is used in the classroom.

First and second semesters. Three hours.

5, 6 The Classic Drama of Spain

Reading in class of one of the plays of Lope de Vega, and one of those of Calderon. The Spanish national drama, from its beginning to the present time. Outside readings and reports.

First and second semesters. Three hours.

SOCIOLOGY

PROFESSOR ROGERS

In this department a study is made of the general subject of sociology, together with a survey of the field of social relations, with the view of establishing principles and laws. The course of study offered aims to fit the student to make a personal study of social questions, to interpret modern social problems, and as far as possible to grapple with and understand the perplexing questions of our modern life, thus preparing him for an intelligent and responsible citizenship. The work of this department may be supplemented by certain courses given in the department of Economics.

11 General Sociology

A study of the nature and laws of human society, familiarizing the pupil with the principle forms of social organization; with the thoughts, the sympathies, the purposes, and the virtues that made society possible; with the benefits that society confers; and with the conduct that worthy membership of society requires.

First and second semesters. Three hours.

The School of Music

FACULTY

Lloyd Slote Dancey, M.A.,
Acting-President of the College

Clarence E. Shepard
Director of the School of Music, and
Professor of Piano, Organ and Theory

Frank Ormsby
Professor of Vocal Music

Erna Selma Lau
Instructor in Piano and Theory

The object of the School of Music is to offer extensive courses in the practical and the theoretical study of all branches of the art and science of music, and to furnish instruction in such other subjects as may be considered necessary for the fullest development of the student's faculties, preparatory to the pursuit of music as a profession. It provides also for the study of music as an adjunct to general culture, or as an accomplishment.

Instruction is offered in piano, voice, organ, violin, and in history of music, harmony, counterpoint, composition, musical form and analysis, keyboard harmony, harmonic analysis, solfeggio, ear-training, and methods in public school music. Special arrangements are made for students not wishing to take up the literary work required for the degree of Bachelor of Music, but desiring to devote themselves more especially to the study of music with little or no collateral work and with a view of graduation either in the teachers' course or graduation class. However, it is expected that boarding students will take some literary studies. Students taking advanced work in music may be allowed twelve unit hours, eight hours in theoretical music and four in advanced applied music, towards the degree of Bachelor of Arts. No credit in practical music will be given until the student shall have completed two years' work in Theory, and no credit will be allowed for less than a years' work in Theory.

Advantages

The advantages of instruction in a school of music, over private instruction are so manifold and varied and so obvious to the serious minded that merely to mention the most important will be sufficient. The faculty of the music department of a college is chosen with special reference to the fitness and ability of its members as teachers and artists. Theory and practice should be united in the successful study of music, and it is only a college with carefully chosen specialists in every department that can offer to the student the facilities necessary for securing a complete equipment as a musician and give him the necessary preparation for successful artistic work as teacher or virtuoso. Again, the atmosphere of a conservatory is in itself stimulating. The broadening and inspiring influence of a good college is inimical to the limited culture and narrow horizons to be avoided by music students of ambition and high ideals. A college cannot fail to create ambition and self-reliance among its students. By observation of the attainments of those who have acquired a higher degree of proficiency, the student is inspired to a greater effort, his forces are directed along right lines, and his perceptive and critical faculties are sharpened. Confidence and self-control are acquired by frequent performances before others, and the student is surrounded by infiuences helpful to the cultivation of a refined musical taste.

Recitals

Frequent recitals are given by members of the faculty and the students, the latter being thus enabled, not only to cultivate their musical taste by hearing the best music interpreted by competent artists, but also to develop to the fullest extent their own ability for public performance. The close proximity of Carroll College to Milwaukee gives to the students practically the advantages of living in a musical center.

Courses in Music

I. A four-year course in Applied Music, Theory, and History of Music, with literary requirements leading to the degree of Bachelor of Music.

II. A four-year course in Applied Music, Theory and History of Music, leading to a diploma from the School of Music.
III. A three-year Normal Course in Piano Methods.
IV. A three-year course in Vocal Methods.
V. A two-year course in Public School Music.

A Teacher's Certificate is given at the completion of Courses III and IV and V.

Requirements for Degree of Bachelor of Music

The following course leads to the degree of Bachelor of Music:

Freshman Year

Applied Music (Piano, Voice, Organ, or Violin): Two private lessons (half-hour each) and not less than eighteen hours practice per week.

Harmony, course 1a, 2a.
Ear-training and Solfeggio, course 1c, 2c.
Keyboard Harmony, course 1b, 2b.
History of Music, course 13, 14.
Literary Studies.

Sophomore Year

Applied Music: Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Harmony, course 3a, 4a.
Keyboard Harmony, course 3b, 4b.
Ear-training and Solfeggio, course 3c, 4c.
Musical Form and Analysis, course 17, 18.
Normal Methods, course 29, 30.
Literary Studies.

Junior Year

Applied Music: Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Counterpoint, course 5, 6.
Musical Form and Analysis, course 19, 20.
Harmonic Analysis, course 15, 16.
Practical Musicianship, course 11, 12.
Ensemble, course 23, 24.
Literary Studies.

Senior Year

Applied Music: Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Counterpoint, course 7, 8 or

Composition, course 9, 10.

Musical Appreciation, course 21, 22.

Ensemble, 23, 24.

Literary Studies.

In the above course the candidate for a degree must receive one-fourth of the total number of credits in literary studies required for the degree of Bachelor of Arts, that is, thirty-two.

Students finishing the course without the literary requirements will be granted a diploma from the School of Music.

Students finishing the junior year and taking the course in Normal Methods will be granted a Teacher's Certificate.

Candidates for a degree or diploma in voice must have at least two years of pianoforte study, but the Counterpoint 13, the Counterpoint 14, and the Composition 15, are not required and membership in the choral union or glee club may be substituted for the ensemble playing of the junior and senior years. One year of Italian and one year of French or German are required of vocal students for the degree of Bachelor of Music.

The course in violin is the same as in piano, except that orchestral rehearsals may be substituted in part for the ensemble work of the junior and senior years.

PIANO

Mr. Shepard, Miss Lau

Careful attention is given to the playing of every conservatory pupil at whatever age he, or she, may enter the institution. The most approved and modern methods are sought out and utilized in developing the student's capabilities, talents and individuality. The utmost care is given to the development of a good touch, a sensitive ear, rhythmical accuracy and stability, and a proper understanding of musical phrasing and expression. The scientific principles underlying the technical methods of the modern pianist are fully explained and applied. While the stand-

ard classical composers are drawn upon for the greater part of the piano curriculum, the more modern romantic school is by no means neglected. The conservatory recognizes the fact that pianists of the present day should be versatile and many-sided in their artistic attainments, and to this end the piano course is planned from its most elementary stage. The method of instruction is based principally upon private lessons. The best results are obtained only by individual attention to the needs, and careful study of the artistic, mental, and physical capacity of each pupil.

During the sophomore year, students in the teacher's course will pursue the studies having a direct bearing on the best methods of imparting musical knowledge, and will survey in a general and systematic way the materials for musical education from the beginning to the attainment of a certain degree of proficiency. In order to make the instruction given in this department thoroughly practical, pupils of various grades are utilized, thus affording the normal students the greater advantage of doing actual teaching under the supervision of the experienced master.

Preparatory School

Hand culture and gymnastic exercises to secure muscular control of arm, wrist, and fingers. Foundation technical exercises based on the Leschetizky system for the cultivation of the touch and for the formation of the hand and preparation for the proper execution of scales, arpeggios, and octaves.

Etudes: Loeschhorn, Gurlitt, Herz, Kullak, Pischna, Krause.
Etudes: Op. 45 and 46, Heller.
Studies on Touch: Wieck.
Sonatinas: Clementi, Dussek, and Kuhlau.
Sonatas: Haydn and Mozart.
Classic and modern compositions.

Freshmen and Sophomore Years

Advanced technical studies, scales, arpeggios, broken chords, octaves.

Technical Studies: Pischna and Joseffy.
Studies in Velocity and *The Art of Finger Dexterity:* Czerny.

Two and Three-Voiced Inventions: Bach.

Octave Studies: Kullak.

Etudes: Cramer.

Sonatas and Pieces: Haydn, Mozart, Beethoven, Händel, Weber, Schubert, Schumann, Medelssohn, Chopin; and compositions by modern composers.

Sight playing and ensemble class work.

Junior and Senior Years

Technical Studies: Phillip.

Gradus ad Parnassum: Clementi.

English *Suites and Well-Tempered Clavichord:* Bach.

Etudes: Chopin, Liszt, Rubenstein, Henselt, Moszkowski, etc.

Pieces and Concertos: Bethoven, Chopin, Schumann, Brahms, Saint-Saens, Liszt, etc.

Accompanying; sight playing; ensemble class work.

Post Graduate or Artist's Class

The artist school is especially designed for students who, having gained a theoretical knowledge, thorough and fundamental, and technical ability, are able to study the greatest works of classic and modern composers, and who desire to reach a higher standard of excellence as artists. The intellectual and other artistic requirements are considerably greater than those for graduation. One object of this course is to provide the student artist with a varied repertoire suited to his musical individuality and to his needs as a public performer.

ORGAN

MR. SHEPARD

Freshman Year

Students must complete the preparatory school of the piano course before admission is granted to the organ department.

Lemmen's *Organ School*; Nilson's *Pedal Studies*; Guilmant's *Practical Organist*; and smaller compositions for the church. The acquiring of an organ touch, both legato and staccato playing, and a systematic course of pedal playing. Choir accompanying and such work in improvisation and modulation as is essential to the church organist.

Sophomore and Junior Years

Preludes, Fugues, and *Choral Vorspiele* of Bach. Easier Sonatas of German and French schools. Church and concert music of all countries. Improvisations in the various forms and the playing of elaborate services, including the arrangement of piano accompaniments for the organ and the reading at sight of vocal scores. A comparative study of the organ and organ music with illustrations. Lectures on the history and construction of the organ in addition to the regular lectures on music and history.

Senior Year

The sonatas and symphonies of all schools; the greater works of Bach and Liszt; and a study of the early compositions for organ and of concertos with orchestral accompaniment.

VOICE

MR. ORMSBY

The course of study in this department includes:

(1) A thorough study of the essential principles of voice production and vocal technique, consisting of the correct use of breath, tone placement, legato, phrasing, and enunciation.

(2) A study of the best vocal compositions, including works of the Italian, French, German, and English schools.

Careful attention is paid to the needs of each student, the course of instruction being based on the Italian school of training the voice. The purpose is to develop beautiful tone and an intelligent and artistic style of interpretation.

It is impossible to give a specified course of study, as the course necessarily varies for each student. The outline below indicates, in a general way, the character and extent of the work.

Freshman Year

Foundation work: correct breathing and control of breath; tone production and placement; enunciation and phrasing.

Vocalises by Sieber and Concone. Simple songs.

Sophomore Year

Continuation of above mentioned exercises and studies.

Special attention paid to range and flexibility.

Moderately difficult vocalises by Siber, Concone, Marchesi.

Artistic interpretation of moderately difficult songs of the German, Italian, French and English schools.

Junior Year

Advanced exercises, vocalises and songs. Standard compositions of classic, romantic, and modern composers.

Senior Year

Difficult exercises, vocalises and songs. Arias from oratorios and operas.

PUBLIC SCHOOL MUSIC

This course is designed to meet the needs of students who desire to become supervisors or special teachers of music in Normal, High, or Graded schools. All students enrolled in the Public School Music department will be required to take applied music in voice and piano to prepare them properly for their certificate. Participation in Glee Club or Chorus is required and is not counted as an elective credit. Demonstration, observation, and practice teaching will be required.

First Year

Methods and demonstration, course 25, 26.
Harmony, course 1a, 2a.
Keyboard Harmony, 1b, 2b.
Ear-training and Solfeggio, course 1c, 2c.
Applied Music.
English, course 1, 2.
Psychology 1, 2.
Electives.

Second Year

Methods and Practices, course 27, 28.
Harmony, course 3a, 4a.
Keyboard Harmony, 3b, 4b.
Ear-training and Solfeggio, course 3c, 4c.
Musical forms and analysis, course 17, 18.
History of Music, course 13, 14.
Musical appreciation, course 21, 22.
Electives.

SCHOOL OF MUSIC—FEES

For a Semester of Eighteen Weeks

Private lessons each week	One Half-Hour Lesson	One Hour or Two Half-Hour Lessons
Mr. Shepard	$27.00	$54.00
Miss Lau	9.00	18.00
VOICE		
Mr. Ormsby	$27.00	$54.00
ORGAN		
Mr. Shepard	$27.00	$54.00
THEORY		
		(Class of six)
Freshman and Sophomore work (Including all theoretical work and History of Music).		$ 9.00
Junior and Senior Theory Rate adjusted according to number in class.		
Public School Music		$18.00
Piano Practice—1 hour per day		3.00

Department of Physical Education

MR. FRIES; MISS KOLTES

The purpose of this department is to create and foster a condition of vigorous health among the students of the college. Directed physical exercise is required of all students in their freshman and sophomore years.

The System of Exercises

All work is graded, systematic, and thorough, with the game or contest idea predominating for both men and women. A wholesome spirit of class rivalry is stimulated by class games and contests held at frequent intervals. In the fall and spring, outdoor games engage the attention of all students. For the young women there are tennis, baseball, and basketball; for young men, football, tennis, basketball, baseball, and track work. Each branch of sport terminates in a tournament or meet for class championship and honors.

For the less robust students, games requiring less physical exertion are provided. Common physical defects are corrected by special exercises, the purpose in all the work being to build up, strengthen, and keep strong the physical body as an aid to the proper development of the mind.

The Gymnasium

Carroll College possesses a modern and well equipped gymnasium. It measures 40 x 73 feet, is eighteen feet in height, and is finished in Georgia pine. The gymnasium, together with the dressing rooms and shower baths, occupy the ground floor of Voorhees Hall. There are windows on three sides affording sufficient sunlight, and careful attention is given to ventilation. The inside lighting is by caged electric lights. There are two handball courts in the gymnasium, and a basket-ball court. Above the gymnasium floor is a running track, and a punching bag platform.

The Equipment

The apparatus includes everything necessary for indoor athletics. In connection with the gymnasium are the bathrooms provided with shower baths, and with a sufficient supply of hot and cold water. Adjoining the men's bathroom is the dressing room for the members of the athletic teams.

Intercollegiate Athletics

The students of the college engage in football, basketball, baseball, and track athletics. Carroll is a member of the Wisconsin Intercollegiate Athletic Association and participates each year in a number of contests with neighboring colleges. Carroll College stands for clean, wholesome athletics and adheres to the spirit, as well as the letter, of the regulations adopted by the conference colleges. While the college lends every encouragement to intercollegiate athletics, it requires that this work be subordinated to the regular work of the school. All intercollegiate contests are under the direction of the athletic association and the athletic committee of the faculty. No student who is deficient in any of his work will be permitted to participate in any intercollegiate contests.

General Information

SUPERVISION

While it is the purpose of the college to encourage self-government and to grant to students as much freedom as is consistent with their best interests and with the good order of the school, yet it is deemed necessary that students should be at all times under the supervision of the faculty.

Non-resident young women are required to live in the dormitory unless special permission to live elsewhere be given by the faculty.

Whenever it becomes apparent that a student's influence is harmful to other students, he will be requested by the faculty to leave the school.

Students who have not at least a fair ability to acquire knowledge, and a reasonable willingness to study, will not be allowed to remain in the school.

Attendance

Students must be prompt and regular in attendance. Tardiness and absence are fatal to good work. The authorities of the college believe that the measure of value which the student derives from his work should be estimated, not by written examinations alone, but also by regular attendance in the classroom and careful preparation of assigned work. Work may be made up; thus the daily grade is raised, but a deduction must be made from the final grade of the semester.

The number of absences from classes permissable in each semester without loss of credit is equal to the number of hours for which the study is scheduled per week. When the excess absences from recitation in any subject equal its number of weekly hours, class standing is thereby forfeited.

Any absence immediately before or immediately after a vacation shall equal two incurred at any other time.

No student is permitted to drop a study without permission from the faculty. A study so dropped without permission will be recorded as a failure.

Examinations and Grades

Such tests and recitation period examinations are given from time to time as instructors may think necessary. At the close of each semester, four days are set apart, on which instructors give examinations covering a part, or the whole, of the semester's work. Full reports, embracing the work of each semester, are sent to the parents for their inspection.

The examinations given at the end of each semester, together with the recitation record and tests given by the instructors at suitable times during the semester, form the basis for a final semester standing. These standings are recorded with the letters A, B, C, D, E, and F, to which the following values are attached:

A: "excellent"	100-93
B: "good"	92-85
C: "fair"	84-77
D: "low"	76-70
E: "condition"	69-60
F: "failure"	59—

A condition may be removed by examination taken not later than the middle of the semester following that in which it was incurred. An "incomplete" shall be construed as a condition. A record of failure requires that the study be taken again in class recitation.

Any student who shall be absent from any examination, quiz, or test, or who shall have forfeited his class standing by absence, or otherwise, shall be required to take a special examination and to pay a fee of one dollar for such examination.

When a student has failed or has been conditioned in a subject, the work should be completed at as early a date as possible, and such work must take precedence over elective or advanced work.

A condition not removed during the semester following that in which it is imposed becomes a failure. All failures and conditions must be made up before a degree will be granted.

Honor Credits

The system of honor credits is explained under the head of "requirements for graduation," page 35.

Classification of Students

To be a sophomore a student must have, at the beginning of the first semester, at least 28 hour credits and 28 honor credits; to be a junior, he must have 58 hour credits and 58 honor credits; to be a senior, he must have 88 hour credits and 88 honor credits.

PUBLIC WORSHIP

A general convocation of the college is held each day that college is in session. A part of the time of this assembly is given to devotional purposes and a part to the presentation and discussion of matters of interest and importance to the college community. Attendance of students is required.

The college maintains no regular Sunday service, but the churches of the city are glad to welcome the students to their fellowship and each student is expected to find a place in one of these churches.

LECTURES

At frequent intervals lectures are given in the college chapel by men of note and distinction in the professions and in the various departments of business activity, an arrangement which affords the student the stimulus of contact with men who are leaders in thought and action.

SOCIAL LIFE

The demands of young people for recreation and their need of social culture and enjoyment receive recognition and encouragement. Students are given as much liberty in social affairs as is consistent with the standard of scholarship maintained and with the responsibility of the faculty for their welfare. Social events, in which members of the school participate, and class parties, are usually restricted to Friday and Saturday evenings, and are always under the supervision of the faculty.

STUDENT ORGANIZATIONS

In recognition of the fact that college students are usually richly endowed with active, creative impulses seeking opportunity for expression, the college has not failed to encourage, within reasonable limits, the many forms of activities which appeal to the varying tastes and interests of college men and women. In consequence, there are athletic, forensic, social, scholastic, literary, scientific, dramatic, musical, religious organizations, which, under careful and intelligent administration, direct into useful and helpful channels student interest and activity.

The Student Senate

The Student Senate is a committee composed of representatives from various designated groups of students, and representing in general the organized body of college students, or the "Assembly of Carroll Students." It considers matters of student interest and welfare, and makes recommendations to the Faculty and Student Assembly. It serves as an agency whereby student sentiment and initiative may be given expression and brought to bear upon the determination of matters of college policy and practice.

Student House Government Association

Definite questions of discipline and house government in the women's dormitory are regulated by the Student House Government Association. The administration of the constitution of this organization is centered in a House Council, composed entirely of students, and an Advisory Board, consisting of the Dean of Women and her associate. The result of placing these problems of government in the hands of the young women has been to develop in a high degree those qualities of responsibility and dependability which are demanded of the college-trained woman.

The All Carroll Club

The All Carroll Club is an organization composed of representative college students and six honorary faculty members

with the purpose of co-operating in every way possible with the administrative authorities of the college in promoting the interests of the college.

Christian Associations

Two very active and prosperous Christian organizations, one the Young Men's Christian Association, the other the Young Women's Christian Association, provide a very pleasant center for the religious life of the college. These associations have their meetings for one-half hour at noon on Wednesdays, the young men and young women meeting in their separate halls. These meetings are frequently addressed by some member of the faculty or by one of the pastors or Christian workers of the city. These several services furnish the occasion and means of very great help and inspiration to all who attend, and they also promote a delightful Christian spirit in the life of the college.

These societies have provided and furnished attractive and homelike rooms for study and reading and conference, and welcome here all students of the college.

In addition to these a very active Young People's Society of Christian Endeavor has been organized and maintained for several years. It has its weekly meetings on Sunday evenings and has been very effective in promoting religious activities among the students of the college.

Another organization for Christian culture is the Student Volunteer Missionary Band in which the missionary interest of the college finds its center and occasion for expression.

Delta Sigma Nu

This is a local honor society, similar in ideals to the national honor society, Phi Beta Kappa. Those students who, at the close of the first semester of junior year, have attained a grade of 92 per cent, are entitled to nomination by the Faculty to membership in Delta Sigma Nu; such nomination is open also to those students who, at the close of the first semester of senior year, have attained a grade of 90 per cent.

Phi Alpha Tau

Phi Alpha Tau is an honorary fraternity, membership in which is conferred for distinguished work in any one or more of the forensic activities of the college.

Oratorial League

The Carroll College Oratorical League is composed of representatives of the college classes, and has control of the local debates and oratorical contests. Two preliminary contests, and one final contest, in oratory are held each year. The winners in the final contest are the representatives of the college in the annual contest of the Wisconsin Intercollegiate Oratorical Association.

Musical Clubs

The musical organizations of the college, the Men's Glee Club, the Women's Glee Club, and the Orchestra, supplement the work of the music department of the college, and afford valuable training in chorus and orchestra work. A concert tour is made each year by these organizations.

The Carroll College French Club

The purpose and plan of this organization for promoting interest in the French language and French culture are described in connection with the statement of the department of French, page 86.

Athletic Association

The Athletic Association represents the organized athletic interests of the college. Under its auspices the intercollegiate games in which the college participates are carried on. Detailed information of the athletic work of the college will be found in the statement of the Department of Physical Education.

PUBLICATIONS

The Carroll Echo

The *Carroll Echo* is edited and published by a staff appointed by the Echo Board of Control, which has general supervision of the policy and conduct of the paper. The work in

connection with this publication is co-ordinated with the academic work of the college, especially with courses in composition, and college credit, under reasonable restrictions, is given for it.

Hinakaga

The junior class issues annually *Hinakaga*, a publication richly illustrated and representing all the varied interests of college life.

The Bulletin

The Bulletin is issued monthly by the faculty of the college.

BOOK STORE

A college book store is maintained, on the ground floor of Main Hall, where books and other necessary supplies may be obtained at reasonable prices.

EXPENSES

College Fees

To provide a minor part of the cost of maintaining the college, the following semester charges are made:

Tuition, $55.00.

Athletics, Oratory, and *Echo* Fees, $5.00.

Extra registration in excess of 16 hours, $4.00 per hour.

Graduation fee, $10.00.

Laboratory Fees

Chemistry (all laboratory courses), $7.50.

Biology, Physics and Surveying, $1.00 per hour for the number of hours for which the course is scheduled.

Accounting, $1.00.

Mechanical Drawing, $1.00.

Chemistry Breakage Deposit, $5.00.

Biology Deposit, $2.50.

Home Economics: Foods, $5.00; Textiles, $1.00.

All college bills are payable in advance at the time of registration. An additional charge of $3.00 is placed upon students who enter after the regular registration. No money will be refunded unless withdrawal from college becomes necessary because of sickness. The tuition charge in this case will be $6.00 per week for the actual time of enrollment. No refunds are allowed on laboratory or incidental fees, or room rent.

Living Expenses for Men

A very important part of the expenses for students is the cost of living; therefore every effort is made to keep this as low as possible. Excellent rooms, convenient to the college, may be had at from $1.00 to $3.00 per week. Table board may be obtained in private families at a rate similar to that charged by the college.

Living Expenses for Women

The rooms of the Elizabeth Voorhees Dormitory are single and double, or may be used en suite. Each occupant of a room has her own closet. The price of rooms, including heating and lighting, ranges from $18.00 to $36.00 per semester. The rate for table board is $6.00 per week, subject to change. Rooms are furnished with college cot, mattress, pillow, study chairs, dresser with mirror, wash stand, bowl and pitcher. The floors are of hard wood and students desiring rugs may furnish them. Bedding, window curtains, couch covers, table covers, napkins, and all other articles of convenience or adornment are furnished by each student.

Single rooms are 9 x 13 feet, and double rooms 12½ x 13½ feet; windows, 38 x 64 inches; study tables, 2 x 3 feet.

Application for admission should be made early. A deposit of $5.00 is required from those engaging rooms, and a choice will be made according to such application. The deposit may be returned if the engagement is cancelled three weeks before the opening of the semester.

Assistance for Students

The college is able to extend some assistance, in a limited degree, through the distribution of scholarship funds pro-

vided by generous friends of ambitious and worthy students. In a larger degree, however, the college is able to assist students by helping them to find opportunities for self-help. There are many such opportunities in the factories, offices, and homes of Waukesha, and the demands for student service have usually met all needs of students who have found it necessary, or who have preferred, to make their own way in college.

UNIVERSITY SCHOLARSHIP

The faculty of Carroll College is authorized by the University of Wisconsin to appoint each year a member of the graduating class of the college to a graduate scholarship in the University. This scholarship affords the incumbent an income of $250 annually.

Roll of Students

THE COLLEGE

Seniors

Batha, Vincent P.	Phillips
Busse, Samuel D.	Waukesha
Campbell, Eleanora Esther	Waukesha
Daane, Cornelius Peter	Oostburg
Daum, Adam James	St. Louis, Mo.
Davis, Lillian	Hedrick, Ia.
Dobson, Lucile Canilla	Rochester
Findlay, Myrtle Buell	Superior
Finley, Frances Damaris	Waukesha
Gollmar, Leora Fidelia	Baraboo
Hanson, Melvin A.	Union Grove
Haugen, Alf E.	Waukesha
Hermes, Charlotte Jeane	Racine
Hertz, Clyde Edward	Waukesha
Hile, Mary E.	Superior
Huenink, Wilma Kathrine	Cedar Grove
Jeffery, Ethel Jean	Templeton
Jones, Robert R.	Wild Rose
Mattas, Ruth Rose	Chicago, Ill.
McKenzie, Mary-Leone	Itasca, Ill.
McManus, Marian Esther	Oregon
Miller, Inga Charlotte	Waupaca
Moran, Lelah N.	Waukesha
Nott, Hermann Aaldrich	Milwaukee
Paddock, Perry M.	LaValle
Peitersen, Peter	Oconto
Showalter, Clarence E.	Milwaukee
Smith, Donald Putney	Waukesha
Smith, Martha Jane	Dayton, Ohio
Tichenor, Helen	Waukesha
Wied, Elizabeth C.	Waupaca
Wilson, Carolyn	Hebron, Ill.

Juniors

Aker, Howard Marshall	Rhinelander
Alvord, Catharine O.	Superior
Bierke, Edward Carl	Green Bay
Bray, George A.	Waukesha
Calvert, Miriam	Des Plaines, Ill.
Christiansen, Marti H.	Waukesha
Christoph, Earle	Waukesha
Clement, Rebecca M.	Reedsburg
Dewey, Kenneth A.	Sheboygan
Dumdey, Caroline	Manitowoc
Engler, John, Jr.	Waukesha
Gilman, Albert F., Jr.	Waukesha
Giroulx, Ernest Louis	Westfield
Glass, Leroy H.	Phillips
Graaskamp, Arnold Roy	Milwaukee
Grimmer, William D.	Green Bay
Hamilton, Catherine Ann	Arena
Heagle, Dorothy	Green Bay
Howard, Leora Marie	Milwaukee
Jacques, George W.	Delafield
Kennedy, Clarence E.	Waukesha
Kennedy, Claude C.	Waukesha
McLean, Bernice Catherine	Marinette
Mishler, James	Waukesha
Nelson, Dorothy	Arena
Roth, Elsa T.	Superior
Schiffman, Estelle Laurel	Waukesha
Shepard, Florence B.	Horicon
Smith, Irene Edyth	Arena
Soulen, Roswell B.	Phillips
Sparr, Edwin	White Lake
Swain, William Maurice	Waukesha
TeRonde, Irwin John	Cedar Grove
Walvoord, Ethel Elise	Sheboygan
Westphal, F. Gilbert	Chilton
Wilson, John H.	Hebron, Ill.

Sophomores

Adams, Beatrice Isabelle	Oconomowoc
Adkisson, Mildred	Roseville, Ill.
Albee, Ruth Emma	Waterford
Albee, Vera Madeline	Waterford
Beernink, Clarence	Milwaukee
Brandt, Albert J.	Osceola
Carnahan, Marjorie R.	Waukesha
Clark, Lawrence H.	Waukesha
Clark, Marietta	Pewaukee
Connell, Hazel M.	Waukesha
Conrad, Jessie S.	Waukesha
Cook, William J.	Commonwealth
Davis, Lucille	Hedrick, Ia.
Edstrom, Helmer T. A.	Manitowoc
Estberg, Kathleen	Milwaukee
Finley, Georgia Iva	Waukesha
Greengo, Beulah Vail	Milwaukee
Hammarlund, Ebba	Norway, Mich.
Hanover, William H.	Adrian, Mich.
Haufe, Lillie	Neenah
Hintze, Theodore A.	Beaver Dam
Honeyager, Anna B.	Waukesha
Howland, Gerald B.	Merrill
Huenink, Deloyd	Cedar Grove
Ihrig, Monteith	Waukesha
Judin, Frances	Waukesha
Kalkhurst, Stanley C.	Rochester, Minn.
Kennedy, G. Agnes	Waukesha
Kent, Hubert J.	Wautoma
Keuper, Irene E.	Waukesha
Klein, Walter E.	Ellsworth
Kremers, Marcus O.	Milwaukee
Kuranz, Alfred	Bangor
Latimer, Byrnice Beatrice	Waukesha
Lean, Olive C.	Dousman
Leininger, Elmer	Waukesha
Levin, Ruth	Waukesha
Loven, Leo C.	Rio

Lyons, Harvey	Waukesha
Mann, Clark	Waukesha
Mattas, Olga	Chicago, Ill.
McFarland, Vern M.	Baraboo
Morey, Robert G., Jr.	Waukesha
Motz, Otis W.	Colgate
Mulrine, Virginia F.	Spokane, Wash.
Mundt, Evelyn Altha	Marinette
Munro, D. Malcolm	Cambridge
Munro, Hugh K.	Cambridge
Panella, Nicholas Joseph	Waukesha
Perry, Lillian Coolidge	North Prairie
Peterson, Allan Richard	Florence
Peterson, H. Marie Victoria	Superior
Rankin, Ruth E.	Pewaukee
Richardson, Stanford R.	Baraboo
Ryerson, Elleaner M.	Pewaukee
Sales, Fred J.	Colgate
Schatz, Walter Hermann	Waukesha
Schofield, Chester Alton	Merrill
Sommer, Clarence Lee	Waukesha
Stewart, Robert J.	Waukesha
Thomas, Arthur William	Milwaukee
Thomas, Gerald S.	Waukesha
Tichenor, Margaret	Waukesha
Tipler, Perry	Neenah
Trethewey, Lois	Norway, Mich.
Turner, Charles M.	Hartford
Van Adestine, Robert F.	Wausau
Van Male, Oliver J.	Milwaukee
Weaver, Adelaide	Sussex
West, Amelia	Waukesha
Wichman, Alton Edward	Waukesha
Williams, Blodwen	Waukesha
Williams, Vernon R.	Dousman
Young, Harvey, Jr.	Neenah

Freshmen

Agnew, Joseph Gerald	Waukesha
Barkow, Dorothy	Waukesha
Benedict, Nita Lois	Waupaca
Bierke, Ida H.	Green Bay
Bilstad, Grant W.	Cambridge
Blasing, Pearl Isabell	Waukesha
Boeck, Otto	Waukesha
Borchard, Lee J.	Merrill
Boyd, David J.	Waukesha
Brown, Clinton R.	Waukesha
Casey, Edward R.	Libertyville, Ill.
Carstens, Allen D.	Waukesha
Croft, Albert E.	Madison
Danielson, Helen	No. Milwaukee
Dewey, Harlow J.	Lake Mills
Diekelman, Melvin	Horicon
Duhm, Clarence A.	Sterling, Ill.
Estberg, Frances	Waukesha
Favor, Geneva M.	Viroqua
Friz, Henry	Waukesha
Fruit, Bernard Dale	Richland Center
Garside, Mary-Ellen	Cedar Grove
Golder, Harold M.	Rockfalls, Ill.
Graaskamp, Jeanette E.	Milwaukee
Griswold, Frederick M.	Lake Mills
Hammond, Lydia Brouwen	Wales
Hertz, Frank W.	Waukesha
Hirth, Harold W.	Fond du Lac
Hutchinson, Alberta	Marinette
Ihrig, Donald	Waukesha
Judin, Leah A.	Waukesha
Judin, Ruth E.	Waukesha
Kelley, Harlan W.	Baraboo
Kelley, Marie Nelson	Waukesha
Kitterman, J. Harwood	Tiskilwa, Ill.
Langenberg, Russell	Stevens Point
Lee, Maude Emma	Waukesha
Lee, Wilma J.	Blue River

Love, Mildred Hannah	Waukesha
MacNamara, Hazel	Ironwood, Mich.
Mann, Margaret M.	Waukesha
McGill, Mary Elizabeth	Templeton
McGinnis, Lucile	Waukesha
Medler, Glenn W.	Waukesha
Means, Mildred Alledta	Edgar
Meyer, Roland Charles	Milwaukee
Milburn, Joseph Harry	Oconomowoc
Mohlke, William A.	Nekoosa
Moss, George Bearman	Milwaukee
Oatway, William H.	Waukesha
Ochsner, Lorene Elizabeth	Prairie du Sac
Olson, Doris Rosalind	Cambridge
Owen, Gwilym A.	Neenah
Parker, Keith	Rio
Parr, Bernice	Milwaukee
Plekenpol, Gladys J.	Cedar Grove
Pope, R. Gordon	Neenah
Potts, Alice L.	Waupaca
Remier, Forest C.	Beaver Dam
Rhoads, Erla Irene	Eagle
Rynder, Wilson T.	Florence
Rideout, Dorothy Heuer	Rhinelander
Schimmel, George H.	Waukesha
Sherman, Rose	Winnebago
Snyder, Clemens M.	Waukesha
Soulen, Joy	Phillips
Spalding, Manford Root	Amherst, Mass.
Spillman, Hilda	Waukesha
Strom, Edward A.	White Creek
Strouf, Viola E.	Francis Creek
Thomas, Evelyn	Waukesha
Thomas, Ruth	Columbus
Tichenor, W. Paul	Waukesha
Toutenhoofd, Koreen	Sheboygan
Tucker, Oliver R.	North Prairie
Tuhus, Mabel	Viroqua
Vincent, Carol Breese	Waukesha

Webb, Millard D.	Waukesha
Weigand, Ted F.	Osceola
Wetlaufer, Leslie A.	Endeavor
Weldy, Camilla J.	Muscoda
Williams, Robert Bentley	Marinette

Special Students

Campau, Mercedes	West Allis
Daniel, Lavona Ann	Milwaukee
Emilson, Victor A.	Ettrick
Ewing, Stewart L.	Waukesha
Friedrich, Edward H.	Red Wing, Minn.
Gaul, Charles R.	Waukesha
Grant, Richard	Pewaukee Lake
Hardy, Ruth A.	Waukesha
Healy, Dana Baird	Racine
Jones, Belle	Cornell
Kramer, Georgian	Waukesha
Merton, Herbert A.	Cheswick, Pa.
Nader, Margaret Alice	Waukesha
Ottenstein, Joseph	Waukesha
Remer, Remer	Kenosha
Rockwood, Mrs. S. W.	Waukesha
Sederholm, H. Louise	Genesee Depot
Sorensen, Thorval Levi	Racine
Stephens, Bessie May	Racine
Stiles, Edith V.	Marinette
Williams, Anna J.	Waukesha

THE SCHOOL OF MUSIC

Piano

Andrews, Mary-Elizabeth	Waukesha
Azus, Mrs. Harry	Waukesha
Blaisdell, Margaret	Waukesha
Blaisdell, Henry Ward	Waukesha
Blaisdell, Frank	Waukesha
Bloom, Evelyn	Waukesha
Campau, Mercedes	West Allis
Campbell, Mrs. Loren	Waukesha

Chapman, Helen	Waukesha
Christoph, Adele	Waukesha
Cutler, Margaret	Waukesha
Dumdey, Caroline	Manitowoc
Edwards, Margaret	Wales
Estberg, Frances	Waukesha
Faber, Yvonne	Oshkosh
Gamble, Mary	Oshkosh
Gaspar, Grace	Waukesha
Hanson, Muriel	Waukesha
Haufe, Lillie	Neenah
Humbert, Gertrude	Waukesha
Jacob, Janet	Waukesha
Jacob, Mary	Waukesha
Jones, Belle	Cornell
Johnson, Mrs. Melvin	Waukesha
Kelley, Marie Nelson	Waukesha
Kimball, Dorothy	Waukesha
Kolb, Alva	Waukesha
Kolb, Lawrence	Waukesha
Kramer, Georgian	Waukesha
Labudde, Gertrude	Oshkosh
Langenberg, Russell	Steven Point
Larsen, Laverne	Waukesha
Levine, Aimee	Waukesha
Love, George	Waukesha
Lowry, Jean	Waukesha
McGill, Mary	Lisbon
Martin, Helen	Waukesha
Martin, Florence	Waukesha
Martin, Russell	Waukesha
Nickell, Mary Ann	Waukesha
Oatway, Margaret	Waukesha
Oium, Geneva	Oshkosh
Oium, Genevieve	Oshkosh
Olson, Doris	Cambridge
Potts, Alice	Waupaca
Roth, Elsa	Superior
Ryerson, Elleaner M.	Pewaukee

Schlicher, Ethel	Hartland
Sederholm, Louise	Genesee
Spillman, Virginia	Waukesha
Spillman, Florence	Waukesha
Stiles, Edith	Marinette
Thompson, Dorothy	Waukesha
Tootenhoofd, Koreen	Sheboygan
Waga, Marjory	Waukesha
Walvoord, Ethel	Sheboygan
West, Katherine	Oshkosh

Voice

Anderson, Esther	Waukesha
Anderson, Ruth	Waukesha
Carnahan, Marjorie	Waukesha
Clark, Marietta	Pewaukee
Daane, Cornelius Peter	Oostburg
Daniel, Lavona Ann	Milwaukee
Davis, Lucille	Hedrick, Ia.
Engler, John	Waukesha
Ewing, Agnes	Waukesha
Fenlon, Mrs. Charles E.	Waukesha
Goff, Dorothy	Waukesha
Graaskamp, Arnold	Milwaukee
Halverson, Mrs. H. M.	Waukesha
Halverson, H. M.	Waukesha
Huenink, Wilma Kathrine	Cedar Grove
Hintze, Theodore A.	Beaver Dam
Hull, Sidney,	Waukesha
Kissling, Robert C.	Waukesha
Lau, Arthur	Waukesha
Morey, Robert G., Jr.	Waukesha
Mundt, Evelyn Altha	Marinette
Schofield, Chester Alton	Merrill
Smart, Mrs. F. E.	Waukesha
Stiles, Edith V.	Marinette
Swain, William Maurice	Waukesha
Williams, Anna J.	Waukesha

Public School Music

Stiles, Edith V.	Marinette

SUMMARY OF STUDENTS

The College:		
Seniors	32	
Juniors	36	
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		245
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		329
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